

## Rabbit PNN/DRSP Polyclonal Antibody | anti-PNN antibody

Anti-PNN/DRSP Antibody

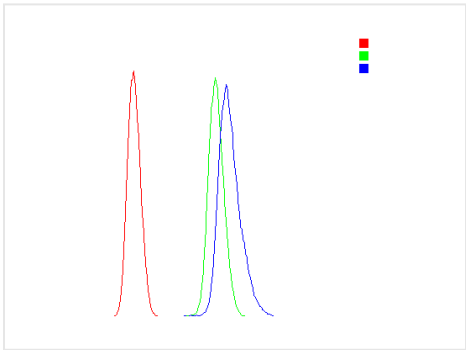
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                          |
|-----------|--------|-------------------|-------------------------------------------------------|
| AAA125613 | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

PNN/DRSP; Polyclonal Antibody; Anti-PNN/DRSP Antibody; PNN; DRS; MEMA; Pinin; 140 kDa nuclear and cell adhesion-related phosphoprotein; Desmosome-associated protein; Domain-rich serine protein; DRS protein; DRSP; Melanoma metastasis clone A protein; Nuclear protein SDK3; SR-like protein; pinin; desmosome associated protein; anti-PNN antibody

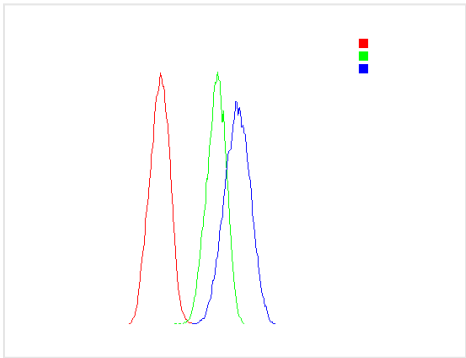
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                            |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                     |
| Reactivity                                    | Human, Mouse, Rat                                                                                                                                                                                          |
| Clonality                                     | Polyclonal                                                                                                                                                                                                 |
| Isotype                                       | Rabbit IgG                                                                                                                                                                                                 |
| Specificity                                   | Rabbit IgG polyclonal antibody for PNN/DRSP detection.                                                                                                                                                     |
| Purity/Purification                           | Immunogen affinity purified.                                                                                                                                                                               |
| Form/Format                                   | Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.                                                                                                                     |
| Applicable Applications for anti-PNN antibody | ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                         |
| Immunogen                                     | E Coli-derived human PNN/DRSP recombinant protein (Position: A2-L241).                                                                                                                                     |
| Reconstitution                                | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                       |
| Recommended Detection Systems                 | Recommended Detection Systems                                                                                                                                                                              |
| Preparation and Storage                       | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |



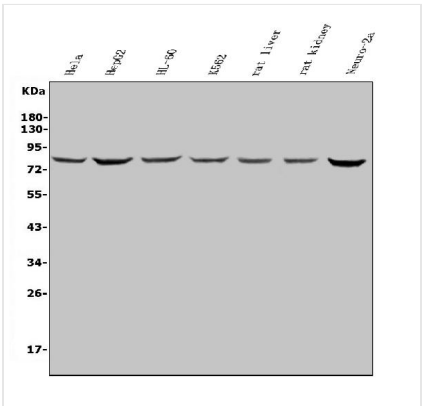
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HL-60 cells using anti-PNN/DRSP antibody (AAA125613).Overlay histogram showing HL-60 cells stained with AAA125613 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PNN/DRSP Antibody (AAA125613, 1&mu;g/1x106 cells) for 30 min at 20 degree C. DyLight&reg;488 conjugated goat anti-rabbit IgG (5-10&mu;g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1&mu;g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-PNN/DRSP antibody (AAA125613).Overlay histogram showing HepG2 cells stained with AAA125613 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PNN/DRSP Antibody (AAA125613, 1&mu;g/1x106 cells) for 30 min at 20 degree C. DyLight&reg;488 conjugated goat anti-rabbit IgG (5-10&mu;g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1&mu;g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of PNN/DRSP using anti-PNN/DRSP antibody (AAA125613).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human Hela whole cell lysatesLane 2: human HepG2 whole cell lysatesLane 3: human HL-60 whole cell lysatesLane 4: human K562 whole cell lysatesLane 5: rat liver tissue lysatesLane 6: rat kidney tissue lysatesLane 7: mouse Neuro-2a whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-PNN/DRSP antigen affinity purified polyclonal antibody (Catalog # AAA125613) at 0. 25 &mu;g/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PNN/DRSP at approximately 82KD. The expected band size for PNN/DRSPis at 82KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PNN antibody

Pinin is a protein that in humans is encoded by the PNN gene. By yeast 2-hybrid analysis of HeLa cells, followed by sequence analysis, it was found that epitope-tagged human PNN interacted with the serine/arginine (SR)-rich proteins SRP75 (SRSF4; 601940), SRM300 (SRRM2; 606032), and SRRP130 (PNISR; 616653). Truncation analysis revealed that the polyserine/RS domain of PNN and flanking sequences participated in binding to these SR proteins. The 4 proteins colocalized in the nucleus of HCE-T cells, and overexpression of any of these proteins affected the distribution of the others between nuclear speckles and nucleoplasm.

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | <p>1. Brandner, J. M., Reidenbach, S., Franke, W. W. Evidence that 'pinin,' reportedly a differentiation-specific desmosomal protein, is actually a widespread nuclear protein. Differentiation 62: 119-127, 1997.</p> <p>2. Brandner, J. M., Reidenbach, S., Kuhn, C., Franke, W. W. Identification and characterization of a novel kind of nuclear protein occurring free in nucleoplasm and in ribonucleoprotein structures of the 'speckle' type. Europ. J. Cell Biol. 75: 295-308, 1998.</p> <p>3. Degen, W. G. J., Agterbos, M. A., Muyrers, J. P. P., Bloemers, H. P. J., Swart, G. W. M. memA/DRS, a putative mediator of multiprotein complexes, is overexpressed in the metastasizing human melanoma cell lines BLM and MV3. Biochim. Biophys. Acta 1444: 384-394, 1999.</p> |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 33356174                                                                                                                                                                                                                  |
| NCBI GeneID                      | 5411                                                                                                                                                                                                                      |
| NCBI Accession #                 | NP_002678.2                                                                                                                                                                                                               |
| NCBI GenBank Nucleotide #        | NM_002687.3                                                                                                                                                                                                               |
| UniProt Accession #              | Q9H307; O60899; Q53EM7; Q6P5X4; Q7KYL1; Q99738; Q9UHZ9; Q9UQR9; B4DZX8                                                                                                                                                    |
| Molecular Weight                 | 81,614 Da                                                                                                                                                                                                                 |
| NCBI Official Full Name          | pinin                                                                                                                                                                                                                     |
| NCBI Official Synonym Full Names | pinin, desmosome associated protein                                                                                                                                                                                       |
| NCBI Official Symbol             | PNN                                                                                                                                                                                                                       |
| NCBI Official Synonym Symbols    | DRS; DRSP; SDK3; memA                                                                                                                                                                                                     |
| NCBI Protein Information         | pinin; SR-like protein; neutrophil protein; nuclear protein SDK3; domain-rich serine protein; desmosome-associated protein; melanoma metastasis clone A protein; 140 kDa nuclear and cell adhesion-related phosphoprotein |
| UniProt Protein Name             | Pinin                                                                                                                                                                                                                     |
| UniProt Gene Name                | <b>PNN</b>                                                                                                                                                                                                                |
| UniProt Synonym Gene Names       | DRS; MEMA; DRS protein; DRSP                                                                                                                                                                                              |
| UniProt Entry Name               | PININ_HUMAN                                                                                                                                                                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.