

Rabbit PRUNE1 Polyclonal Antibody | anti-PRUNE1 antibody

Anti-PRUNE1 Antibody Picoband

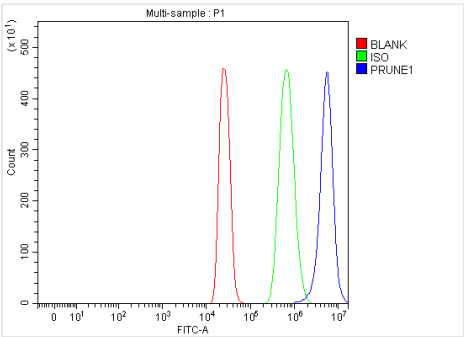
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127933	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

PRUNE1; Polyclonal Antibody; Anti-PRUNE1 Antibody Picoband; Lymphocyte antigen 6A-2/6E-1; retrotransposon Gag like 10; Protein Bop; BH3-only protein; Retrotransposon Gag-like protein 10; RTL10; BOP; C22orf29; anti-PRUNE1 antibody

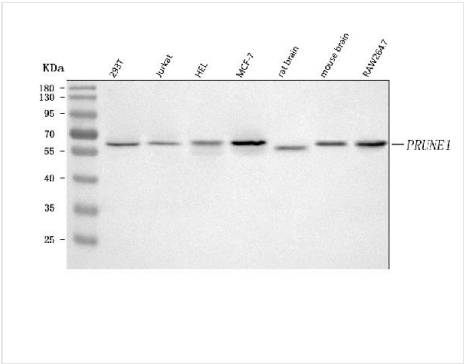
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitously expressed.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PRUNE1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PRUNE1 recombinant protein (Position: M1-Q444).
Subcellular Localization	Cell membrane, Lipid-anchor, GPI-anchor
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Could induce apoptosis in a BH3 domain-dependent manner. The interaction network of Bcl-2 family members may play a key role in modulation RTL10/BOP intrinsic apoptotic signaling activity.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



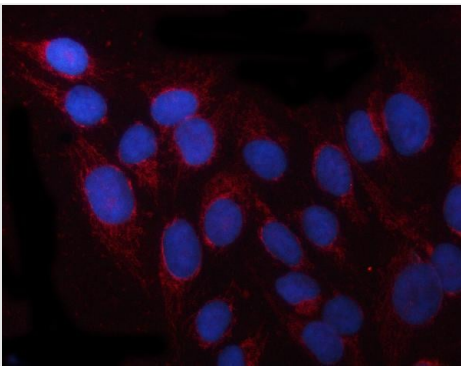
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of 293T cells using anti-PRUNE1 antibody (AAA127933).Overlay histogram showing 293T cells stained with AAA127933 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PRUNE1 Antibody (AAA127933, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/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 PRUNE1 using anti-PRUNE1 antibody (AAA127933).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 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates,Lane 2: human Jurkat whole cell lysates,Lane 3: human HEL whole cell lysates,Lane 4: human MCF-7 whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: mouse brain tissue lysates,Lane 7: mouse RAW264.7 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-PRUNE1 antigen affinity purified polyclonal antibody (#AAA127933) at 0.5ug/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 PRUNE1 at approximately 60 kDa. The expected band size for PRUNE1 is at 50,60 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of PRUNE1 using anti-PRUNE1 antibody (AAA127933).PRUNE1 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PRUNE1 Antibody (AAA127933) overnight at 4 degree C. DyLight550 Conjugated Goat Anti-Rabbit IgG (BA1135) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-PRUNE1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PRUNE1 antibody	Primary Antibodies; Chemokines; Immunology; Innate Immunity

References	1. Alhaddad, B., Schossig, A., Haack, T. B., Kovacs-Nagy, R., Braunisch, M. C., Makowski, C., Senderek, J., Vill, K., Muller-Felber, W., Strom, T. M., Krabichler, B., Freisinger, P., and 17 others. PRUNE1 deficiency: expanding the clinical and genetic spectrum. <i>Neuropediatrics</i> 49: 330-338, 2018. 2. Costain, G., Shugar, A., Krishnan, P., Mahmutoglu, S., Laughlin, S., Kannu, P. Homozygous mutation in PRUNE1 in an Oji-Cree male with a complex neurological phenotype. <i>Am. J. Med. Genet.</i> 173A: 740-743, 2017. 3. Diana, D., Smaldone, G., De Antonellis, P., Pirone, L., Carotenuto, M., Alonzi, A., Di Gaetano, S., Zollo, M., Pedone, E. M., Fattorusso, R. Mapping functional interaction sites of human prune C-terminal domain by NMR spectroscopy in human cell lysates. <i>Chemistry</i> 19: 12217-12220, 2013.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	24308263
NCBI GeneID	58497
NCBI Accession #	NP_067045.1
NCBI GenBank Nucleotide #	NM_021222.2
UniProt Accession #	Q86TP1; Q5SZF9; Q659E5; Q6P4E0; Q8N654; Q96JU5; Q9C071; Q9C072; Q9UIV0; B2RCH8; B4DFL7
Molecular Weight	24,475 Da
NCBI Official Full Name	protein prune homolog isoform 1
NCBI Official Synonym Full Names	prune exopolyphosphatase
NCBI Official Symbol	PRUNE
NCBI Official Synonym Symbols	DRES17; HTCD37; DRES-17
NCBI Protein Information	protein prune homolog; Drosophila-related expressed sequence 17
UniProt Protein Name	Protein prune homolog
UniProt Gene Name	PRUNE
UniProt Synonym Gene Names	hPrune; DRES-17; DRES17
UniProt Entry Name	PRUNE_HUMAN

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