

Rabbit NUMB Polyclonal Antibody | anti-NUMB antibody

Anti-NUMB Antibody Picoband

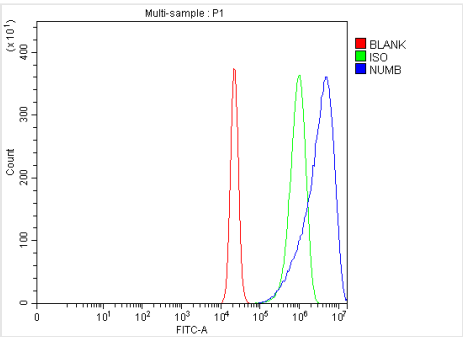
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127043	Rabbit	Human, Monkey, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

NUMB; Polyclonal Antibody; Anti-NUMB Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-NUMB antibody

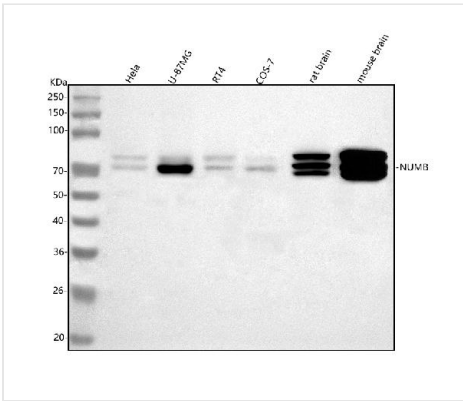
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-NUMB antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human NUMB recombinant protein (Position: E59-A567). Human NUMB shares 93.7% amino acid (aa) sequence identity with both mouse and rat NUMB.
Subcellular Localization	Cytoplasm, Nucleus
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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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 2. Flow Cytometry analysis of RT4 cells using anti-NUMB antibody (AAA127043).Overlay histogram showing RT4 cells stained with AAA127043 (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-NUMB Antibody (AAA127043, 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 NUMB using anti-NUMB antibody (AAA127043).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 HeLa whole cell lysates,Lane 2: human U-87 MG whole cell lysates,Lane 3: human RT4 whole cell lysates,Lane 4: monkey COS-7 whole cell lysates,Lane 5: rat brain tissue tissue lysates,Lane 6: mouse brain tissue 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-NUMB antigen affinity purified polyclonal antibody (#AAA127043) 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 NUMB at approximately 72-75 kDa. The expected band size for NUMB is at 42 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NUMB 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-NUMB antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Dho SE, French MB, Woods SA, McGlade CJ (November 1999). "Characterization of four mammalian numb protein isoforms. Identification of cytoplasmic and membrane-associated variants of the phosphotyrosine binding domain". J. Biol. Chem. 274 (46): 33097-104.2. Katoh M, Katoh M (September 2006). "NUMB is a break of WNT-Notch signaling cycle". Int. J. Mol. Med. 18(3): 517-21.3. Pece S, Confalonieri S, R Romano P, Di Fiore PP (January 2011). "NUMB-ing down cancer by more than just a NOTCH". Biochim. Biophys. Acta 1815 (1): 26-43.

NCBI AND UNIPROT INFORMATION

NCBI GI #	54144625
NCBI GeneID	8650
NCBI Accession #	NP_1005743
NCBI GenBank Nucleotide #	NM_001005743.1
UniProt Accession #	P49757; Q6NUQ7; Q86SY1; Q8WW73; Q9UBG1; Q9UEQ4; B1P2N5; B1P2N6; B1P2N7; B1P2N8; B1P2N9; B4E2B1
Molecular Weight	37,396 Da
NCBI Official Full Name	protein numb homolog isoform 1
NCBI Official Synonym Full Names	numb homolog (Drosophila)

NCBI Official Symbol	NUMB
NCBI Official Synonym Symbols	S171; C14orf41; c14_5527
NCBI Protein Information	protein numb homolog; h-Numb
UniProt Protein Name	Protein numb homolog
UniProt Gene Name	NUMB
UniProt Synonym Gene Names	h-Numb
UniProt Entry Name	NUMB_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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/numb-antibody-flow-cytometry-western-blot-elisa/127043>