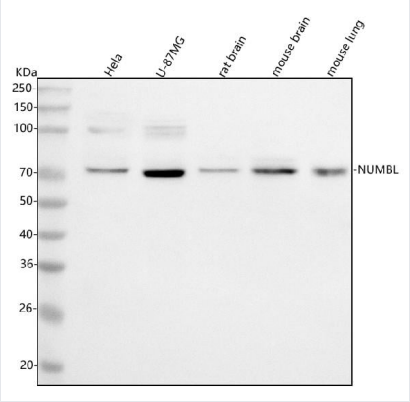
NUMBL Antibody – Rabbit Polyclonal

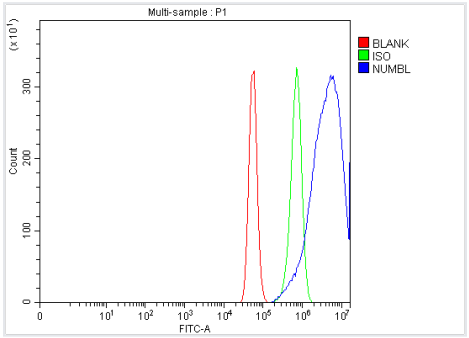
PRODUCT OVERVIEW

Product Name	NUMBL, Polyclonal Antibody
Full Product Name	Anti-NUMBL Antibody Picoband
Product Gene Name	anti-NUMBL antibody
Product Synonym Names	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
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Expressed in all tissues.
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.
Molecular Weight	609
OMIM	604018
3D Structure	ModBase 3D Structure for Q9Y6R0
Immunogen	E coli-derived human NUMBL recombinant protein (Position: R336-A537). Human NUMBL shares 91.1% and 89.4% amino acid (aa) sequence identity with mouse and rat NUMBL, respectively.
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.
Product Categories/Family for anti-NUMBL antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-NUMBL antibody	Western Blot (WB), Flow Cytometry (FC/FACS), ELISA (EIA)

Application Notes for anti-NUMBL antibody	WB: 0.25-0.5ug/ml, Human, Mouse, Rat FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-NUMBL 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 References and Citations for anti-NUMBL antibody	1. Huang, E. J., Li, H., Tang, A. A., Wiggins, A. K., Neve, R. L., Zhong, W., Jan, L. Y., Jan, Y. N. Targeted deletion of numb and numblike in sensory neurons reveals their essential functions in axon arborization. Genes Dev. 19: 138-151, 2005. 2. Li, H.-S., Wang, D., Shen, Q., Schonemann, M. D., Gorski, J. A., Jones, K. R., Temple, S., Jan, L. Y., Jan, Y. N. Inactivation of Numb and Numblike in embryonic dorsal forebrain impairs neurogenesis and disrupts cortical morphogenesis. Neuron 40: 1105-1118, 2003. 3. Margolis, R. L., Abraham, M. R., Gatchell, S. B., Li, S.-H., Kidwai, A. S., Breschel, T. S., Stine, O. C., Callahan, C., McInnis, M. G., Ross, C. A. cDNAs with long CAG trinucleotide repeats from human brain. Hum. Genet. 100: 114-122, 1997.
Other Notes	Small volumes of anti-NUMBL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NUMBL purchase	MBS1758873 is an antibody targeting NUMBL. Also known as Anti-NUMBL Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-NUMBL antibody
Figure 1. Western blot analysis of NUMBL using anti-NUMBL antibody (MBS1758873).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: rat brain tissue lysates,Lane 4: mouse brain tissue lysates,Lane 5: mouse lung 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-NUMBL antigen affinity purified polyclonal antibody (#MBS1758873) 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 (#MBS176460) with Tanon 5200 system. A specific band was detected for NUMBL at approximately 72 kDa. The expected band size for NUMBL is at 65-70 kDa.



Flow Cytometry (FC/FACS) of anti-NUMBL antibody
Figure 2. Flow Cytometry analysis of U87 cells using anti-NUMBL antibody (MBS1758873).Overlay histogram showing U87 cells stained with MBS1758873 (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-NUMBL Antibody (MBS1758873, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NUMBL. It may not necessarily be applicable to this product.

NCBI GI #	14194976
NCBI GeneID	9253
NCBI Accession #	Q9Y6R0.1
UniProt Primary Accession #	Q9Y6R0
UniProt Secondary Accession #	Q7Z4J9

UniProt Related Accession #	Q9Y6R0
NCBI Official Full Name	Numb-like protein
NCBI Official Synonym Full Names	numb homolog (Drosophila)-like
NCBI Official Symbol	NUMBL
NCBI Official Synonym Symbols	NBL; CAG3A; CTG3a; NUMBR; NUMB-R; TNRC23; NUMBLIKE
UniProt Protein Name	Numb-like protein
UniProt Synonym Protein Names	Numb-related protein; Numb-R
Protein Family	Numb-like protein
UniProt Gene Name	NUMBL
UniProt Synonym Gene Names	Numb-R
UniProt Entry Name	NUMBL_HUMAN
NCBI Protein Information	numb-like protein; numb homolog-like; numb-related protein
UniProt Comments for NUMBL	NUMBL: Plays a role in the process of neurogenesis. Required throughout embryonic neurogenesis to maintain neural progenitor cells, also called radial glial cells (RGCs), by allowing their daughter cells to choose progenitor over neuronal cell fate. Not required for the proliferation of neural progenitor cells before the onset of embryonic neurogenesis. Also required postnatally in the subventricular zone (SVZ) neurogenesis by regulating SVZ neuroblasts survival and ependymal wall integrity. Negative regulator of NF-kappa-B signaling pathway. The inhibition of NF- kappa-B activation is mediated at least in part, by preventing MAP3K7IP2 to interact with polyubiquitin chains of TRAF6 and RIPK1 and by stimulating the 'Lys-48'-linked polyubiquitination and degradation of TRAF6 in cortical neurons. Interacts (via PTB domain) with MAP3K7IP2 (via C- terminal). Interacts (via C-terminal) with TRAF6 (via TRAF domains). Associates with EPS15 and NOTCH1. Protein type: Cell development/differentiation Chromosomal Location of Human Ortholog: 19q13.13-q13.2 Cellular Component: cytoplasm Molecular Function: protein binding Biological Process: nervous system development; positive regulation of neurogenesis; axonogenesis; cytokine and chemokine mediated signaling pathway; protein metabolic process; neuroblast division in the subventricular zone; positive regulation of dendrite morphogenesis; lateral ventricle development
Research Articles on NUMBL	**1.** Numbl might be involved in the inhibition of growth, proliferation, and invasion of 95-D lung cancer cells.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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