

Rabbit RPH3A Polyclonal Antibody | anti-RPH3A antibody

Anti-RPH3A Antibody Picoband

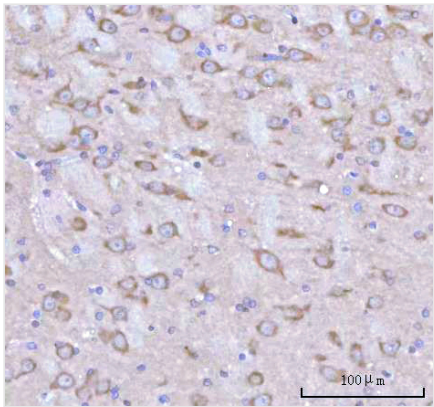
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127640	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RPH3A; Polyclonal Antibody; Anti-RPH3A Antibody Picoband; Protein NDRG3; pre T cell antigen receptor alpha; Pre T-cell antigen receptor alpha; pT-alpha; pTa; pT-alpha-TCR; PTCRA; anti-RPH3A antibody

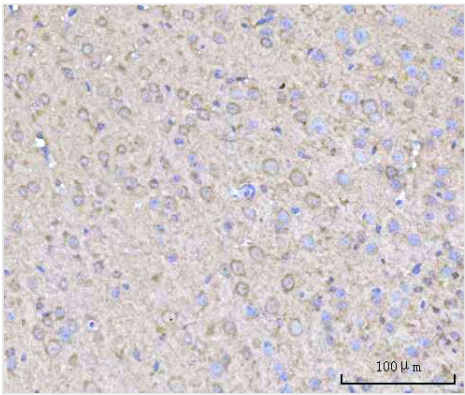
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in immature but not mature T-cells. Also found in CD34+ cells from peripheral blood, CD34+ precursors from umbilical cord blood and adult bone marrow.
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-RPH3A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human RPH3A recombinant protein (Position: R78-Q564).
Subcellular Localization	Membrane, Single-pass type I membrane protein
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	The pre-T-cell receptor complex (composed of PTCRA, TCRB and the CD3 complex) regulates early T-cell development.
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.



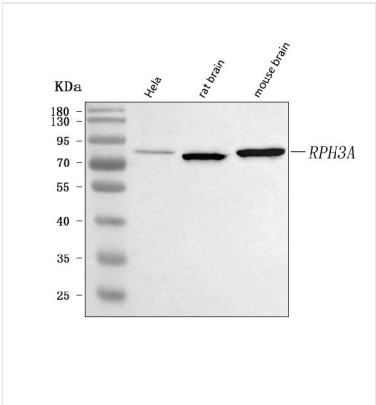
IHC (Immunohistochemistry)

Figure 3. IHC analysis of RPH3A using anti-RPH3A antibody (AAA127640).RPH3A was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RPH3A Antibody (AAA127640) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of RPH3A using anti-RPH3A antibody (AAA127640).RPH3A was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RPH3A Antibody (AAA127640) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of RPH3A using anti-RPH3A antibody (AAA127640).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: rat brain tissue lysates,Lane 3: 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-RPH3A antigen affinity purified polyclonal antibody (#AAA127640) 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 RPH3A at approximately 85 kDa. The expected band size for RPH3A is at 77 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RPH3A 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-RPH3A antibody	Primary Antibodies; Hematopoietic Progenitors; Lymphoid; Stem Cells; T Lymphocytic Lineage

References	1. Inagaki, N., Mizuta, M., Seino, S. Cloning of a mouse rabphilin-3A expressed in hormone-secreting cells. J. Biochem. 116: 239-242, 1994. 2. Lin, C.-C., Huang, C.-C., Lin, K.-H., Cheng, K.-H., Yang, D.-M., Tsai, Y.-S., Ong, R.-Y., Huang, Y.-N., Kao, L.-S. Visualization of Rab3A dissociation during exocytosis: a study by total internal reflection microscopy. J. Cell. Physiol. 211: 316-326, 2007. 3. Nagase, T., Ishikawa, K., Suyama, M., Kikuno, R., Hirose, M., Miyajima, N., Tanaka, A., Kotani, H., Nomura, N., Ohara, O. Prediction of the coding sequences of unidentified human genes. XIII. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro. DNA Res. 6: 63-70, 1999.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	219804203
NCBI GeneID	22895
NCBI Accession #	NP_001137326.1
NCBI GenBank Nucleotide #	NM_001143854.1
UniProt Accession #	Q9Y2J0; Q96AE0; B7Z3C3
Molecular Weight	76,872 Da
NCBI Official Full Name	rabphilin-3A isoform 1
NCBI Official Synonym Full Names	rabphilin 3A homolog (mouse)
NCBI Official Symbol	RPH3A
NCBI Protein Information	rabphilin-3A; exophilin-1
UniProt Protein Name	Rabphilin-3A
UniProt Gene Name	RPH3A
UniProt Synonym Gene Names	KIAA0985
UniProt Entry Name	RP3A_HUMAN

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