

Rabbit anti-Human POLR1B Polyclonal Antibody | anti-POLR1B antibody

Anti-POLR1B Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127739	Rabbit	Human	Western Blot, Immunocytochemistry, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

POLR1B; Polyclonal Antibody; Anti-POLR1B Antibody Picoband; solute carrier family 2 member 6; Solute carrier family 2; facilitated glucose transporter member 6; Glucose transporter type 6; GLUT-6; Glucose transporter type 9; GLUT-9; SLC2A6; GLUT9; anti-POLR1B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly Expressed in brain, spleen and peripheral blood leukocytes.
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-POLR1B antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human POLR1B recombinant protein (Position: H18-V1135).
Subcellular Localization	Cell membrane. Multi-pass 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	Facilitative glucose transporter; binds cytochalasin B with low affinity.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of A431 cells using anti-POLR1B antibody (AAA127739). Overlay histogram showing A431 cells stained with AAA127739 (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-POLR1B Antibody (AAA127739, 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.



IF (Immunofluorescence)

Figure 4. IF analysis of POLR1B using anti-POLR1B antibody (AAA127739). POLR1B was detected in an immunocytochemical section of PC-3 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-POLR1B Antibody (AAA127739) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) 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.



IHC (Immunohistochemisry)

Figure 3. IHC analysis of POLR1B using anti-POLR1B antibody (AAA127739).POLR1B was detected in a paraffin-embedded section of human lymphoma 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-POLR1B Antibody (AAA127739) 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 (Immunohiostchemistry)

Figure 2. IHC analysis of POLR1B using anti-POLR1B antibody (AAA127739).POLR1B was detected in a paraffin-embedded section of human breast cancer 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-POLR1B Antibody (AAA127739) 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 POLR1B using anti-POLR1B antibody (AAA127739).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 K562 whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human 293T 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-POLR1B antigen affinity purified polyclonal antibody (#AAA127739) 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 POLR1B at approximately 128 kDa. The expected band size for POLR1B is at 128 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-POLR1B 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-POLR1B antibody	Primary Antibodies ; Cancer ; Channels ; Metabolism ; Plasma Membrane ; Signal Transduction
References	1. Sanchez, E., Laplace-Builhe, B., Mau-Them, F. T., Richard, E., Goldenberg, A., Toler, T. L., Guignard, T., Gatinois, V., Vincent, M., Blanchet, C., Boland, A., Bihoreau, M. T., and 16 others. POLR1B and neural crest cell anomalies in Treacher Collins syndrome type 4. <i>Genet. Med.</i> 22: 547-556, 2020. 2. Seither, P., Grummt, I. Molecular cloning of RPA2, the gene encoding the second largest subunit of mouse RNA polymerase I. <i>Genomics</i> 37: 135-139, 1996.3. Stumpf, A. M. Personal Communication. Baltimore, Md. 07/06/2020.

NCBI AND UNIPROT INFORMATION

NCBI GI #	212286172
NCBI GeneID	84172
NCBI Accession #	NP_001131076.1
NCBI GenBank Nucleotide #	NM_001137604.1
UniProt Accession #	Q9H9Y6 ; Q585T5 ; Q6ZRR2 ; Q9H9D3
Molecular Weight	128,229 Da
NCBI Official Full Name	DNA-directed RNA polymerase I subunit RPA2 isoform 2
NCBI Official Synonym Full Names	polymerase (RNA) I polypeptide B, 128kDa

NCBI Official Symbol	POLR1B
NCBI Official Synonym Symbols	RPA2; RPA135; Rpo1-2
NCBI Protein Information	DNA-directed RNA polymerase I subunit RPA2; RNA polymerase I subunit 2; DNA-directed RNA polymerase I 135kDa polypeptide; DNA-directed RNA polymerase I 135 kDa polypeptide
UniProt Protein Name	DNA-directed RNA polymerase I subunit RPA2
UniProt Gene Name	POLR1B
UniProt Synonym Gene Names	RNA polymerase I subunit 2; RPA135
UniProt Entry Name	RPA2_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://stage.aaabiotech.com/polyclonal/polr1b-antibody-western-blot-immunocytochemistry-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/127739>