

Rabbit anti-Human PROX2 Polyclonal Antibody | anti-PROX2 antibody

Anti-PROX2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127843	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

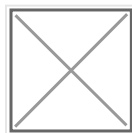
PRODUCT SYNONYMS

PROX2; Polyclonal Antibody; Anti-PROX2 Antibody Picoband; anti-PROX2 antibody

PRODUCT SPECIFICATIONS

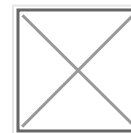
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PROX2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PROX2 recombinant protein (Position: R104-E438). Human PROX2 shares 56.7% amino acid (aa) sequence identity with mouse PROX2.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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 3. Flow Cytometry analysis of HEL cells using anti-PROX2 antibody (AAA127843). Overlay histogram showing HEL cells stained with AAA127843 (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-PROX2 Antibody (AAA127843, 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 2. IF analysis of PROX2 using anti-PROX2 antibody (AAA127843) and anti-Beta Tubulin antibody (M01857-3). PROX2 was detected in immunocytochemical section of MCF-7 cell. 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-PROX2 Antibody (AAA127843) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG and DyLight550 Conjugated Goat Anti-Mouse IgG (BA1133) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of PROX2 using anti-PROX2 antibody (AAA127843). 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 HepG2 whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human Caco-2 whole cell lysates, Lane 4: human HEL 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-PROX2 antigen affinity purified polyclonal antibody (#AAA127843) 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 PROX2 at approximately 66 kDa. The expected band size for PROX2 is at 66 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PROX2 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-PROX2 antibody	Primary Antibodies
References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 2/22/2013.2. Nishijima, I., Ohtoshi, A. Characterization of a novel prospero-related homeobox gene, Prox2. Molec. Genet. Genomics 275: 471-478, 2006.3. Pistocchi, A., Bartesaghi, S., Cotelli, F., Del Giacco, L. Identification and expression pattern of zebrafish prox2 during embryonic development. Dev. Dynamics 237: 3916-3920, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	339895889
NCBI GeneID	283571
NCBI Accession #	NP_001229936.1
NCBI GenBank Nucleotide #	NM_001243007.1
UniProt Accession #	Q3B8N5; Q8N9Q3; C9J5W1
Molecular Weight	65,586 Da
NCBI Official Full Name	prospero homeobox protein 2 isoform 1
NCBI Official Synonym Full Names	prospero homeobox 2
NCBI Official Symbol	PROX2
NCBI Official Synonym Symbols	PROX-2
NCBI Protein Information	prospero homeobox protein 2; homeobox prospero-like protein PROX2
UniProt Protein Name	Prospero homeobox protein 2
UniProt Gene Name	PROX2
UniProt Synonym Gene Names	PROX-2
UniProt Entry Name	PROX2_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/prox2-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127843>