

Rabbit anti-Human PERM1 Polyclonal Antibody | anti-PERM1 antibody

Anti-PERM1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127869	Rabbit	Human	Western Blot, Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA

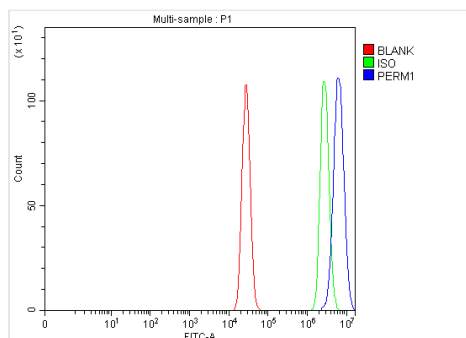
PRODUCT SYNONYMS

PERM1; Polyclonal Antibody; Anti-PERM1 Antibody Picoband; anti-PERM1 antibody

PRODUCT SPECIFICATIONS

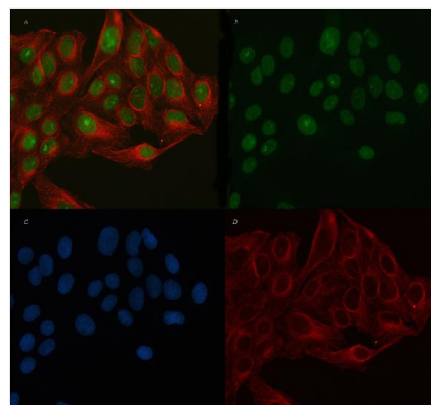
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PERM1 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human PERM1 recombinant protein (Position: R69-N763). Human PERM1 shares 50.1% amino acid (aa) sequence identity with mouse PERM1.
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



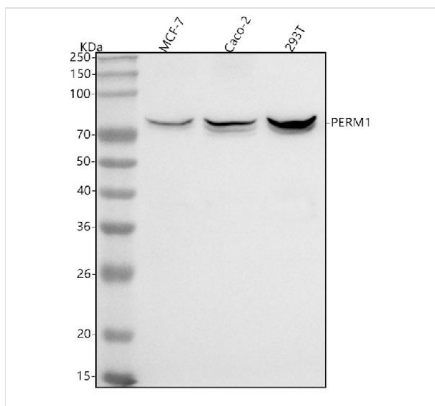
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of MCF-7 cells using anti-PERM1 antibody (AAA127869). Overlay histogram showing MCF-7 cells stained with AAA127869 (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-PERM1 Antibody (AAA127869, 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 PERM1 using anti-PERM1 antibody (AAA127869) and anti-Beta Tubulin antibody (M01857-3). PERM1 was detected in immunocytochemical section of U2OS 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-PERM1 Antibody (AAA127869) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG (B) and DyLight550 Conjugated Goat Anti-Mouse IgG (BA1133)(D) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI(C). Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of PERM1 using anti-PERM1 antibody (AAA127869). 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 MCF-7 whole cell lysates, Lane 2: human Caco-2 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-PERM1 antigen affinity purified polyclonal antibody (#AAA127869) 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 PERM1 at approximately 75 kDa. The expected band size for PERM1 is at 85 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PERM1 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-PERM1 antibody	Primary Antibodies
References	1. Cho, Y., Hazen, B. C., Russell, A. P., Kralli, A. Peroxisome proliferator-activated receptor-gamma coactivator 1 (PGC-1)- and estrogen-related receptor (ERR)-induced regulator in muscle 1 (PERM1) is a tissue-specific regulator of oxidative capacity in skeletal muscle cells. J. Biol. Chem. 288: 25207-25218, 2013.2. Hartz, P. A. Personal Communication. Baltimore, Md. 8/4/2014.

NCBI AND UNIPROT INFORMATION

NCBI GI #	607344299
NCBI GeneID	84808
NCBI Accession #	NP_001278295.1
NCBI GenBank Nucleotide #	NM_001291366.1
UniProt Accession #	Q5SV97 ; Q6ZVZ7 ; Q9BRF2 ; S5G239
Molecular Weight	81,351 Da
NCBI Official Full Name	PGC-1 and ERR-induced regulator in muscle protein 1 isoform 1
NCBI Official Synonym Full Names	PPARGC1 and ESRR induced regulator, muscle 1
NCBI Official Symbol	PERM1
NCBI Official Synonym Symbols	C1orf170

NCBI Protein Information	PGC-1 and ERR-induced regulator in muscle protein 1; PGC-1 and ERR-induced regulator in muscle 1; PPARGC1 and ESRR-induced regulator in muscle 1; pGC-1 and ERR-induced regulator in muscle protein 1; peroxisome proliferator-activated receptor gamma coactiv
UniProt Protein Name	PGC-1 and ERR-induced regulator in muscle protein 1
UniProt Gene Name	PERM1
UniProt Synonym Gene Names	C1orf170
UniProt Entry Name	PERM1_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/perm1-antibody-western-blot-immunofluorescence-immunocytochemistry-flow-cytometry-elisa/127869>