

Rabbit anti-Human PLET1 Polyclonal Antibody | anti-PLET1 antibody

Anti-PLET1 Antibody Picoband

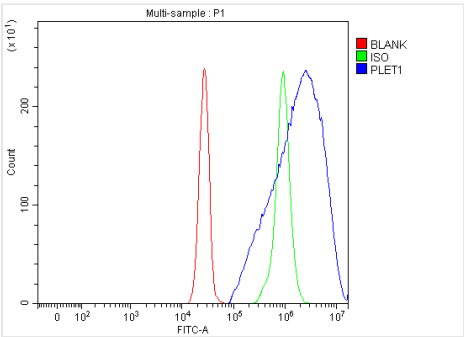
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127851	Rabbit	Human	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

PLET1; Polyclonal Antibody; Anti-PLET1 Antibody Picoband; Transmembrane protein 240; TMEM240; C1orf70; anti-PLET1 antibody

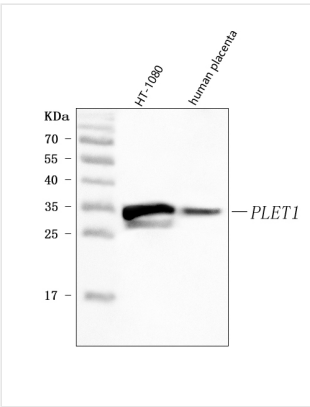
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon.
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-PLET1 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human PLET1 recombinant protein (Position: D46-K166).
Subcellular Localization	Cell junction, synapse, 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	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.
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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of SiHa cells using anti-PLET1 antibody (AAA127851). Overlay histogram showing SiHa cells stained with AAA127851 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-PLET1 Antibody (AAA127851, 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.



WB (Western Blot)

Figure 1. Western blot analysis of PLET1 using anti-PLET1 antibody (AAA127851). 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 HT-1080 whole cell lysates, Lane 2: human placenta 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-PLET1 antigen affinity purified polyclonal antibody (#AAA127851) 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 PLET1 at approximately 28 kDa. The expected band size for PLET1 is at 23,25 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PLET1 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-PLET1 antibody	Primary Antibodies; Cell Biology
References	1. Depreter, M. G. L., Blair, N. F., Gaskell, T. L., Nowell, C. S., Davern, K., Pagliocca, A., Stenhouse, F. H., Farley, A. M., Fraser, A., Vrana, J., Robertson, K., Morahan, G., Tomlinson, S. R., Blackburn, C. C. Identification of Plet-1 as a specific marker of early thymic epithelial progenitor cells. Proc. Nat. Acad. Sci. 105: 961-966, 2008. 2. Zhao, S.-H., Simmons, D. G., Cross, J. C., Scheetz, T. E., Casavant, T. L., Soares, M. B., Tuggle, C. K. PLET1 (C11orf34), a highly expressed and processed novel gene in pig and mouse placenta, is transcribed but poorly spliced in human. Genomics 84: 114-125, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	222537734
NCBI GeneID	349633
NCBI Accession #	NP_001138496.1
NCBI GenBank Nucleotide #	NM_001145024.1
UniProt Accession #	Q6UQ28; Q6UQ24; Q6UQ25; Q6UQ27
Molecular Weight	23,385 Da
NCBI Official Full Name	placenta-expressed transcript 1 protein
NCBI Official Synonym Full Names	placenta expressed transcript 1
NCBI Official Symbol	PLET1

NCBI Official Synonym Symbols	C11orf34
NCBI Protein Information	placenta-expressed transcript 1 protein
UniProt Protein Name	Placenta-expressed transcript 1 protein
UniProt Gene Name	PLET1
UniProt Synonym Gene Names	C11orf34

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/plet1-antibody-western-blot-flow-cytometry-elisa/127851>