

Rabbit anti-Human PATE1 Polyclonal Antibody | anti-PATE1 antibody

Anti-PATE1 Antibody Picoband

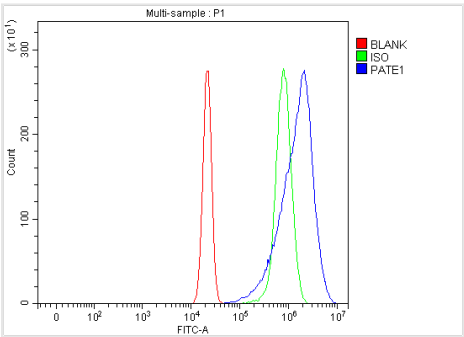
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127852	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

PATE1; Polyclonal Antibody; Anti-PATE1 Antibody Picoband; Transmembrane protein 240; TMEM240; C1orf70; anti-PATE1 antibody

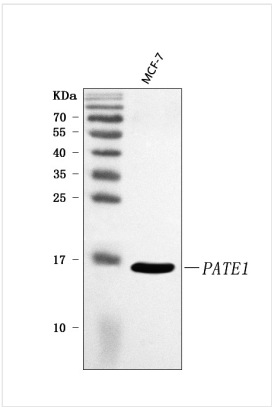
PRODUCT SPECIFICATIONS

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-PATE1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PATE1 recombinant protein (Position: S22-L126).
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 U2OS cells using anti-PATE1 antibody (AAA127852).Overlay histogram showing U2OS cells stained with AAA127852 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-PATE1 Antibody (AAA127852, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of PATE1 using anti-PATE1 antibody (AAA127852).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.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-PATE1 antigen affinity purified polyclonal antibody (#AAA127852) at 0.25ug/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 PATE1 at approximately 14 kDa. The expected band size for PATE1 is at 14 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PATE1 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-PATE1 antibody	Primary Antibodies; Cell Biology
References	1. Bera, T. K., Maitra, R., Iavarone, C., Salvatore, G., Kumar, V., Vincent, J. J., Sathyanarayana, B. K., Duray, P., Lee, B. K., Pastan, I. PATE, a gene expressed in prostate cancer, normal prostate, and testis, identified by a functional genomic approach. Proc. Nat. Acad. Sci. 99: 3058-3063, 2002

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923082
NCBI GeneID	160065
NCBI Accession #	NP_612151.1
NCBI GenBank Nucleotide #	NM_138294.2
UniProt Accession #	Q8WXA2; Q3KNX2
Molecular Weight	14,271 Da
NCBI Official Full Name	prostate and testis expressed protein 1
NCBI Official Synonym Full Names	prostate and testis expressed 1
NCBI Official Symbol	PATE1
NCBI Official Synonym Symbols	PATE
NCBI Protein Information	prostate and testis expressed protein 1; expressed in prostate and testis

UniProt Protein Name	Prostate and testis expressed protein 1
UniProt Gene Name	PATE1
UniProt Synonym Gene Names	PATE
UniProt Entry Name	PATE1_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/pate1-antibody-flow-cytometry-western-blot-elisa/127852>