

Rabbit anti-Human ITGA8 Polyclonal Antibody | anti-ITGA8 antibody

Anti-ITGA8 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127390	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

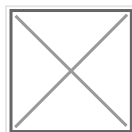
PRODUCT SYNONYMS

ITGA8; Polyclonal Antibody; Anti-ITGA8 Antibody Picoband; AP-2 complex subunit beta; glycoprotein 2 (zymogen granule membrane); Pancreatic secretory granule membrane major glycoprotein GP2; Pancreatic zymogen granule membrane protein GP-2; Gp2; anti-ITGA8 antibody

PRODUCT SPECIFICATIONS

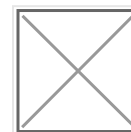
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in all tissues tested including, liver, heart, adipose tissue, mammary gland, testes, ovary, brain, kidney and muscle. Highest levels in liver.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-ITGA8 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human ITGA8 recombinant protein (Position: E347-D964).
Subcellular Localization	Cell membrane. GPI-anchor. Secreted
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	Functions as a transcriptional repressor, inhibiting the signaling of retinoic acid through the retinoic acid receptors RARA, RARB and RARG. Prevents retinoic acid-induced cell proliferation arrest, differentiation and apoptosis.
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 293T cells using anti-ITGA8 antibody (AAA127390). Overlay histogram showing 293T cells stained with AAA127390 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-ITGA8 Antibody (AAA127390, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of ITGA8 using anti-ITGA8 antibody (AAA127390). ITGA8 was detected in an immunocytochemical section of A431 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-ITGA8 Antibody (AAA127390) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG 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.



WB (Western Blot)

Figure 1. Western blot analysis of ITGA8 using anti-ITGA8 antibody (AAA127390). 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 HEK293 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-ITGA8 antigen affinity purified polyclonal antibody (#AAA127390) 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 ITGA8 at approximately 180 kDa. The expected band size for ITGA8 is at 117 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGA8 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-ITGA8 antibody	Primary Antibodies ; Cofactors ; Vitamins/Minerals ; Metabolism ; Mitochondrial ; Mitochondrial Markers ; Mitochondrial Metabolism ; Pathways and Processes ; Signal Transduction ; Vitamins/Minerals
References	1. Humbert, C., Silbermann, F., Morar, B., Parisot, M., Zarhrate, M., Masson, C., Tores, F., Blanchet, P., Perez, M.-J., Petrov, Y., Khau Van Kien, P., Roume, J., and 9 others. Integrin alpha 8 recessive mutations are responsible for bilateral renal agenesis in humans. Am. J. Hum. Genet. 94: 288-294, 2014. Note: Erratum: Am. J. Hum. Genet. 94: 799 only, 2014. 2. Littlewood Evans, A. L., Muller, U. Stereocilia defects in the sensory hair cells of the inner ear in mice deficient in integrin alpha-8/beta-1. Nature Genet. 24: 424-428, 2000. 3. Muller, U., Wang, D., Denda, S., Meneses, J. J., Pedersen, R. A., Reichardt, L. F. Integrin alpha-8/beta-1 is critically important for epithelial-mesenchymal interactions during kidney morphogenesis. Cell 88: 603-613, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	49170034
NCBI GeneID	8516
NCBI Accession #	NP_003629.1
NCBI GenBank Nucleotide #	NM_003638.1
UniProt Accession #	P53708 ; Q5VX94 ; B0YJ31
Molecular Weight	117,474 Da
NCBI Official Full Name	integrin alpha-8
NCBI Official Synonym Full Names	integrin, alpha 8
NCBI Official Symbol	ITGA8
NCBI Official Synonym Symbols	ITGA8
NCBI Protein Information	integrin alpha-8; OTTHUMP00000019207
UniProt Protein Name	Integrin alpha-8
UniProt Gene Name	ITGA8
UniProt Entry Name	ITA8_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/itga8-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127390>