

Rabbit WNT7A Polyclonal Antibody | anti-WNT7A antibody

Anti-WNT7A Antibody Picoband

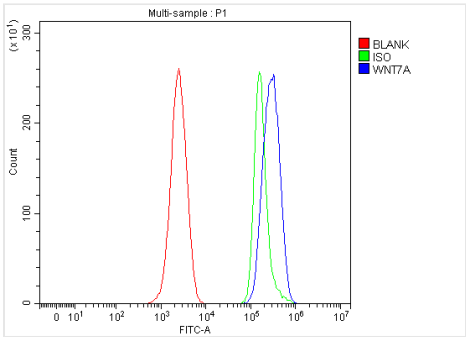
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126169	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

WNT7A; Polyclonal Antibody; Anti-WNT7A Antibody Picoband; anti-WNT7A antibody

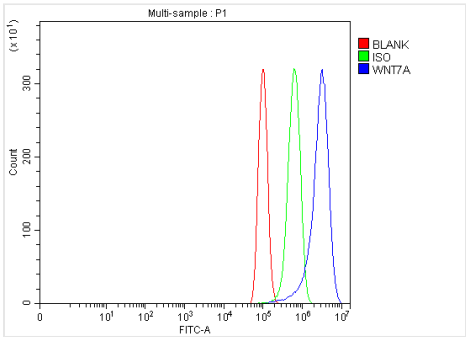
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Mouse Pecam1
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 .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-WNT7A antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Assay Type	Sandwich
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store 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.



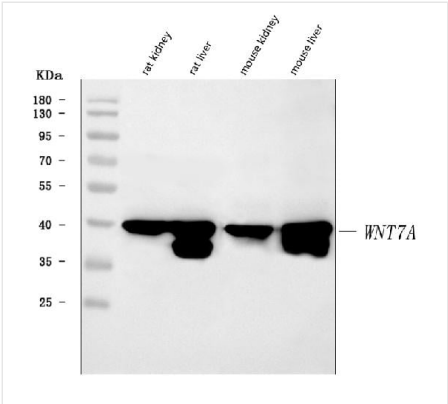
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of ANA-1 cells using anti-WNT7A antibody (AAA126169).Overlay histogram showing ANA-1 cells stained with AAA126169 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-WNT7A Antibody (AAA126169, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of PC-3 cells using anti-WNT7A antibody (AAA126169).Overlay histogram showing PC-3 cells stained with AAA126169 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-WNT7A Antibody (AAA126169, 1 ug/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 (1 ug/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 WNT7A using anti-WNT7A antibody (AAA126169).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: rat kidney tissue lysates,Lane 2: rat liver tissue lysates,Lane 3: mouse kidney tissue lysates,Lane 4: mouse liver 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-WNT7A antigen affinity purified polyclonal antibody (#AAA126169) at 0.5 ug/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 WNT7A at approximately 39-40 kDa. The expected band size for WNT7A is at 40 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-WNT7A antibody	Background: PECAM-1 is an important target GP in DITP.1 Platelet/endothelial cell adhesion molecule-1(PECAM-1) is a 130-kD member of the Ig gene superfamily that is expressed on the surface of circulating platelets, monocytes, neutrophils, and selective T-cell subsets.2 Platelet endothelial cell adhesion molecule-1(PECAM-1/CD31) is a member of the immunoglobulin(Ig) superfamily that has distinctive features of an immunoreceptor based upon its genomic structure and the presence of intrinsic immunoreceptor tyrosine inhibitory motifs(ITIMs) in its ligand binding polypeptide.3 PECAM-1 has recently been shown to contain functional immunoreceptor tyrosine-based inhibitory motifs(ITIMs) within its cytoplasmic domain, and co-ligation of PECAM-1 with the T-cell antigen receptor(TCR) results in tyrosine phosphorylation of PECAM-1, recruitment of Src homology 2 domain-containing protein tyrosine phosphatase-2(SHP-2), and attenuation of TCR-mediated cellular signaling.4 The standard used in this kit is the product of gene recombinant expression(extracellular part), consisting of 563 amino acids(E28-K590) with the molecular weight of 65.5KDa. After glycosylating, its molecular weight changes to 91-100KDa. Principle of the Assay: The Quick Picokine™ Mouse Pecam1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Mouse Pecam1 in cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Mouse Pecam1 with immunogen: Expression system for standard: NS0; Immunogen sequence: E18-K590. To measure Mouse Pecam1, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Mouse Pecam1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Pecam1 in the sample.
Product Categories/Family for anti-WNT7A antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	17505191
NCBI GeneID	7476
NCBI Accession #	NP_004616.2
NCBI GenBank Nucleotide #	NM_004625.3
UniProt Accession #	O00755; Q96H90; Q9Y560
Molecular Weight	39,005 Da
NCBI Official Full Name	protein Wnt-7a
NCBI Official Synonym Full Names	wingless-type MMTV integration site family, member 7A
NCBI Official Symbol	WNT7A
NCBI Protein Information	protein Wnt-7a; proto-oncogene Wnt7a protein
UniProt Protein Name	Protein Wnt-7a
UniProt Gene Name	WNT7A
UniProt Entry Name	WNT7A_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.