

Rabbit anti-Human TWF1 Polyclonal Antibody | anti-TWF1 antibody

Anti-TWF1 Antibody Picoband

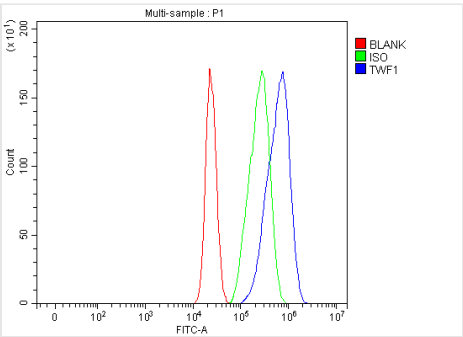
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127415	Rabbit	Human	Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

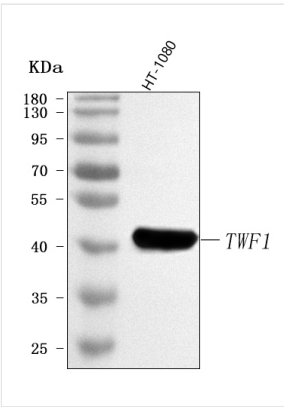
TWF1; Polyclonal Antibody; Anti-TWF1 Antibody Picoband; ADAM metallopeptidase domain 28; aldo-keto reductase family 7 member A2; Aflatoxin B1 aldehyde reductase member 2; AFB1 aldehyde reductase 1; AFB1-AR 1; Aldoketoreductase 7; Succinic semialdehyde reductase; SSA reductase; AKR7A2; AFAR; AFAR1; AKR7; anti-TWF1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in basement membranes of lung and kidney. Muscle- and neuron-specific isoforms are found. Isoforms (y+) with the 4 AA insert and (z+8) isoforms with the 8 AA insert are all neuron-specific. Isoforms (z+11) are found in both neuronal and non-neuronal tissues.
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-TWF1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Immunogen	E coli-derived human TWF1 recombinant protein (Position: H116-D350).
Subcellular Localization	Golgi apparatus. Cytoplasm.
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	Catalyzes the NADPH-dependent reduction of succinic semialdehyde to gamma-hydroxybutyrate. May have an important role in producing the neuromodulator gamma-hydroxybutyrate (GHB). Has broad substrate specificity. Has NADPH-dependent aldehyde reductase activity towards 2-carboxybenzaldehyde, 2-nitrobenzaldehyde and pyridine-2-aldehyde (in vitro). Can reduce 1,2-naphthoquinone and 9,10-phenanthrenequinone (in vitro). Can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. May be involved in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen.
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 MCF-7 cells using anti-TWF1 antibody (AAA127415). Overlay histogram showing MCF-7 cells stained with AAA127415 (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-TWF1 Antibody (AAA127415, 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 TWF1 using anti-TWF1 antibody (AAA127415). 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. 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-TWF1 antigen affinity purified polyclonal antibody (#AAA127415) 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 TWF1 at approximately 42 kDa. The expected band size for TWF1 is at 40,42 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-TWF1 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-TWF1 antibody	Primary Antibodies; Epigenetics and Nuclear Signaling; Pol II Transcription; Polymerase Associated Factors; Transcription
References	1. Beeler, J. F., LaRochelle, W. J., Chedid, M., Tronick, S. R., Aaronson, S. A. Prokaryotic expression cloning of a novel human tyrosine kinase. Molec. Cell. Biol. 14: 982-988, 1994. 2. Meacham, C. E., Ho, E. E., Dubrovsky, E., Gertler, F. B., Hemann, M. T. In vivo RNAi screening identifies regulators of actin dynamics as key determinants of lymphoma progression. Nature Genet. 41: 1133-1137, 2009.3. Paavilainen, V. O., Hellman, M., Helfer, E., Bovellan, M., Annala, A., Carlier, M.-F., Permi, P., Lappalainen, P. Structural basis and evolutionary origin of actin filament capping by twinfilin. Proc. Nat. Acad. Sci. 104: 3113-3118, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	334848198
NCBI GeneID	5756
NCBI Accession #	NP_001229326.1
NCBI GenBank Nucleotide #	NM_001242397.1
UniProt Accession #	Q12792; Q59G07; Q5U0B1; Q6FHJ1; Q6FHL6; Q6NUK9; Q86XL6; Q8TCD3; A8K5A8; B3KXS6; B4DLX9
Molecular Weight	28,823 Da
NCBI Official Full Name	twinfilin-1 isoform 1
NCBI Official Synonym Full Names	twinfilin actin-binding protein 1
NCBI Official Symbol	TWF1
NCBI Official Synonym Symbols	A6; PTK9

NCBI Protein Information	twinfilin-1; A6 protein tyrosine kinase; PTK9 protein tyrosine kinase 9; protein A6; twinfilin, actin-binding protein, homolog 1
UniProt Protein Name	Twinfilin-1
UniProt Gene Name	TWF1
UniProt Synonym Gene Names	PTK9
UniProt Entry Name	TWF1_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/twf1-antibody-flow-cytometry-western-blot-elisa/127415>