

Rabbit TSC22D1 Polyclonal Antibody | anti-TSC22D1 antibody

Anti-TSC22D1 Antibody Picoband

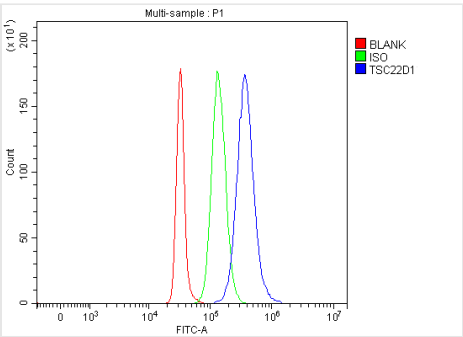
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127365	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

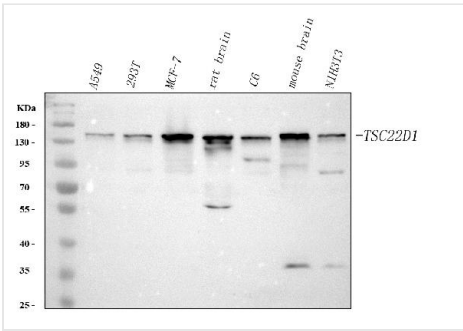
TSC22D1; Polyclonal Antibody; Anti-TSC22D1 Antibody Picoband; AP-2 complex subunit mu; Rho-related GTP-binding protein Rho6; Rho family GTPase 1; Rnd1; RND1; RHO6; anti-TSC22D1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mostly Expressed in brain and liver.
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-TSC22D1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human TSC22D1 recombinant protein (Position: N179-Q926).
Subcellular Localization	Cell membrane, Lipid-anchor, Cytoplasmic side, Cytoplasm, cytoskeleton
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	Lacks intrinsic GTPase activity. Has a low affinity for GDP, and constitutively binds GTP. Controls rearrangements of the actin cytoskeleton. Induces the Rac-dependent neuritic process formation in part by disruption of the cortical actin filaments. Causes the formation of many neuritic processes from the cell body with disruption of the cortical actin filaments.
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 SH-SY5Y cells using anti-TSC22D1 antibody (AAA127365). Overlay histogram showing SH-SY5Y cells stained with AAA127365 (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-TSC22D1 Antibody (AAA127365, 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 TSC22D1 using anti-TSC22D1 antibody (AAA127365). 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 A549 whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: rat C6 whole cell lysates, Lane 6: mouse brain tissue lysates, Lane 7: mouse NIH/3T3 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-TSC22D1 antigen affinity purified polyclonal antibody (#AAA127365) 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 TSC22D1 at approximately 140-150 kDa. The expected band size for TSC22D1 is at 140-150 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-TSC22D1 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-TSC22D1 antibody	Primary Antibodies; Actin Assembly; Actin, etc.; Cytoskeleton; Cytoskeleton/ECM; G Protein Signaling; Microfilaments; Ras Family; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Jay, P., Ji, J. W., Marsollier, C., Taviaux, S., Berge-Lefranc, J.-L., Berta, P. Cloning of the human homologue of the TGF-beta-stimulated clone 22 gene. Biochem. Biophys. Res. Commun. 222: 821-826, 1996. 2. Kester, H. A., Blanchetot, C., den Hertog, J., van der Saag, P. T., van der Burg, B. Transforming growth factor-beta-stimulated clone-22 is a member of a family of leucine zipper proteins that can homo- and heterodimerize and has transcriptional repressor activity. J. Biol. Chem. 274: 27439-27447, 1999. 3. Ohta, S., Shimekake, Y., Nagata, K. Molecular cloning and characterization of a transcription factor for the C-type natriuretic peptide gene promoter. Europ. J. Biochem. 242: 460-466, 1996.

NCBI AND UNIPROT INFORMATION

NCBI GI #	345090986
NCBI GeneID	8848
NCBI Accession #	NP_001230728.1
NCBI GenBank Nucleotide #	NM_001243799.1
UniProt Accession #	Q15714; O00666; Q6AHX5; Q6IBU1; Q8NCN1; Q96JS5; B3KRL7; B9EGIO
Molecular Weight	109,677 Da
NCBI Official Full Name	TSC22 domain family protein 1 isoform 4
NCBI Official Synonym Full Names	TSC22 domain family, member 1
NCBI Official Symbol	TSC22D1

NCBI Official Synonym Symbols	Ptg-2; TSC22; TGFB1I4
NCBI Protein Information	TSC22 domain family protein 1; cerebral protein 2; regulatory protein TSC-22; TGFbeta-stimulated clone 22; TGFB-stimulated clone 22 homolog; transcriptional regulator TSC-22; transforming growth factor beta-stimulated protein TSC-22; transforming growth f
UniProt Protein Name	TSC22 domain family protein 1
UniProt Gene Name	TSC22D1
UniProt Synonym Gene Names	KIAA1994; TGFB1I4; TSC22
UniProt Entry Name	T22D1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/tsc22d1-antibody-flow-cytometry-western-blot-elisa/127365>