

Rabbit anti-Human STBD1 Polyclonal Antibody | anti-STBD1 antibody

Anti-STBD1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19938	Rabbit	Human	ELISA, Immunofluorescence, Immunohistochemistry, Immunocytochemistry, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

STBD1; Polyclonal Antibody; Anti-STBD1 Antibody Picoband; Protein NDRG3; N-myc downstream-regulated gene 3 protein; NDRG3; anti-STBD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous.Highly expressed in brain.
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-STBD1 antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.25-0.5ug/ml, Human IHC(Paraffin-embedded Section): 2-5ug/ml, Human ICC/IF: 5ug/ml, Human FC/FACS:(Fixed), 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human STBD1 recombinant protein (Position: E39-N328).
Subcellular Localization	Membrane, Single-pass type I 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	Promotes the growth of epithelial cells. May stimulate the phosphorylation of EGFR and mitogen-activated protein kinases.
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 (Flow Cytometry)

Figure 6. Flow Cytometry analysis of PC-3 cells using anti-STBD1 antibody (AAA19938). Overlay histogram showing PC-3 cells stained with AAA19938 (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-STBD1 Antibody (AAA19938, 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.



IF (Immunofluorescence)

Figure 5. IF analysis of STBD1 using anti-STBD1 antibody (AAA19938).STBD1 was detected in an immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-STBD1 Antibody (AAA19938) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-STBD1 Antibody (AAA19938) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-STBD1 Antibody (AAA19938) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human A549 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-STBD1 antigen affinity purified polyclonal antibody (#AAA19938) 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 STBD1 at approximately 39 kDa. The expected band size for STBD1 is at 39 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-STBD1 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-STBD1 antibody	Primary Antibodies; Cancer; Cell Biology; Cell Cycle; Cell Differentiation; Tumor Biomarkers
References	1. Bouju, S., Lignon, M.-F., Pietu, G., Le Cunff, M., Leger, J.-J., Auffray, C., Dechesne, C. A. Molecular cloning and functional expression of a novel human gene encoding two 41-43 kDa skeletal muscle internal membrane proteins. Biochem. J. 335: 549-556, 1998. 2. Jiang, S., Heller, B., Tagliabracci, V. S., Zhai, L., Irimia, J. M., DePaoli-Roach, A. A., Wells, C. D., Skurat, A. V., Roach, P. J. Starch binding domain-containing protein 1/Genethonin 1 is a novel participant in glycogen metabolism. J. Biol. Chem. 285: 34960-34971, 2010. Note: Erratum: J. Biol. Chem. 286: 39673 only, 2011. 3. Pietu, G., Alibert, V., Guichard, B., Lamy, F., Bois, E., Leroy, R., Mariage-Samson, R., Houlgatte, P., Soularue, P., Auffray, C. Novel gene transcripts preferentially expressed in human muscles revealed by quantitative hybridization of a high density cDNA array. Genome Res. 6: 492-503, 1996.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503977
NCBI GeneID	8987
NCBI Accession #	NP_003934.1
NCBI GenBank Nucleotide #	NM_003943.4
UniProt Accession #	O95210; B3KVZ9
Molecular Weight	39,007 Da
NCBI Official Full Name	starch-binding domain-containing protein 1

NCBI Official Synonym Full Names	starch binding domain 1
NCBI Official Symbol	STBD1
NCBI Official Synonym Symbols	GENEX3414; GENX-3414
NCBI Protein Information	starch-binding domain-containing protein 1; genethonin 1
UniProt Protein Name	Starch-binding domain-containing protein 1
UniProt Gene Name	STBD1
UniProt Entry Name	STBD1_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/stbd1-antibody-immunofluorescence-immunohistochemistry-immunocytochemistry-western-blot-flow-cytometry-elisa/19938>