

## Rabbit anti-Human, Mouse STBD1 Polyclonal Antibody | anti-STBD1 antibody

STBD1 Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                       |
|-----------|--------|--------------|------------------------------------|
| AAA323150 | Rabbit | Human, Mouse | Immunohistochemistry, Western Blot |

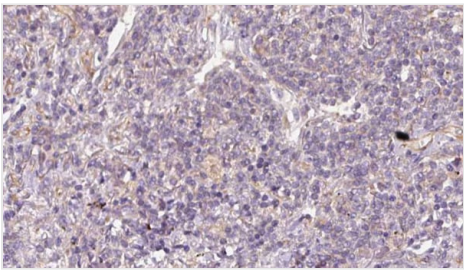
### PRODUCT SYNONYMS

STBD1; Polyclonal Antibody; STBD1 Antibody; FLJ41801; Genethonin-1; Genethonin1; GENEX 3414; GENEX3414; GENX 3414; GENX3414; Starch binding domain 1; Starch binding domain containing protein 1; Starch-binding domain-containing protein 1; STBD 1; STBD1\_HUMAN; anti-STBD1 antibody

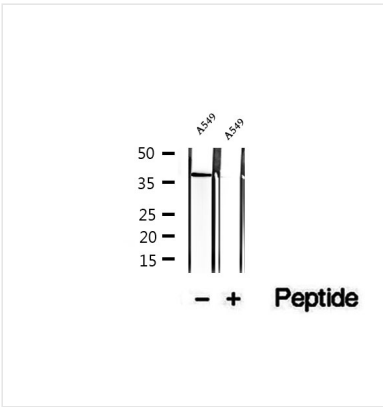
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                      |
| Reactivity                                      | Human, Mouse                                                                                                                                                                                                                |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                  |
| Isotype                                         | IgG                                                                                                                                                                                                                         |
| Specificity                                     | STBD1 antibody detects endogenous levels of STBD1.                                                                                                                                                                          |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                               |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                               |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                                                                      |
| Sequence Length                                 | 358                                                                                                                                                                                                                         |
| Applicable Applications for anti-STBD1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                               |
| Immunogen                                       | A synthesized peptide derived from human STBD1.                                                                                                                                                                             |
| Subcellular Location                            | Membrane. Distributed in the transverse tubules and/or near the junctional sarcoplasmic reticulum.                                                                                                                          |
| Tissue Specificity                              | Expressed at high level in skeletal and cardiac muscles. Moderately expressed in liver and placenta. No expression is found in pancreas, kidney or lung. Present in skeletal muscle, heart and placenta (at protein level). |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                           |

IMAGES



**IHC (Immunohiostchemistry)**  
AAA323150 at 1/100 staining Human lymph cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



**WB (Western Blot)**  
Western blot analysis of extracts of A549 cells, using STBD1 antibody.

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-STBD1 antibody</b> | <p>Function: Acts as a cargo receptor for glycogen. Delivers its cargo to an autophagic pathway called glycophagy, resulting in the transport of glycogen to lysosomes.</p> <p>Subunit Structure: Interacts with the ATG8 family proteins GABARAP and GABARAPL1 (PubMed:20810658, PubMed:21893048). Interacts with several glycogen-associated proteins, such as GYS2 (liver glycogen synthase), GDE (glycogen debranching enzyme), GBE1 (glycogen branching enzyme 1) and EPM2A (Laforin) (PubMed:24837458).</p> <p>Post-translational Modifications: Ubiquitinated, which leads to proteasomal degradation.</p> <p>Similarity: The LIR motif (LC3-interacting region) is required for the interaction with the ATG8 family protein GABARAPL1. The C-terminal CBM20 domain is required for the interaction with glycogen and glycogen-associated proteins.</p> |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| NCBI GI #                        | 4503977                                    |
| NCBI GeneID                      | 8987                                       |
| NCBI Accession #                 | NP_003934.1                                |
| NCBI GenBank Nucleotide #        | NM_003943.4                                |
| UniProt Accession #              | O95210; B3KVV9                             |
| Molecular Weight                 | Observed: 35-43 kDa<br>Predicted: 40 kDa   |
| 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 |
| UniProt Protein Name             | Starch-binding domain-containing protein 1 |
| UniProt Gene Name                | STBD1                                      |

**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.