

TPSAB1 / Mast Cell Tryptase Antibody
Mouse Monoclonal Antibody
Catalog # ALS12280**Specification**

TPSAB1 / Mast Cell Tryptase Antibody - Product Information

| | |
|-------------------|-------------------------|
| Application | IHC |
| Primary Accession | Q15661 |
| Reactivity | Human, Monkey, Dog, Cat |
| Host | Mouse |
| Clonality | Monoclonal |
| Calculated MW | 31kDa KDa |

TPSAB1 / Mast Cell Tryptase Antibody - Additional Information**Gene ID** 7177**Other Names**

Tryptase alpha/beta-1, Tryptase-1, 3.4.21.59, Tryptase I, Tryptase alpha-1, TPSAB1, TPS1, TPS2, TPSB1

Target/Specificity

Recognizes human mast cell tryptase, both alpha and beta isoforms. The antibody is an excellent marker for mast cells and does not bind to any other cell type in Immunohistochemistry. Species cross-reactivity: feline, canine and monkey.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

TPSAB1 / Mast Cell Tryptase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TPSAB1 / Mast Cell Tryptase Antibody - Protein Information**Name** TPSAB1**Synonyms** TPS1, TPS2, TPSB1**Function**

Tryptase is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type. May play a role in innate immunity. Isoform 2 cleaves large substrates, such as fibronectin, more efficiently than isoform 1, but seems less efficient toward small substrates (PubMed:18854315).

Cellular Location

Secreted. Note=Released from the secretory granules upon mast cell activation.

Tissue Location

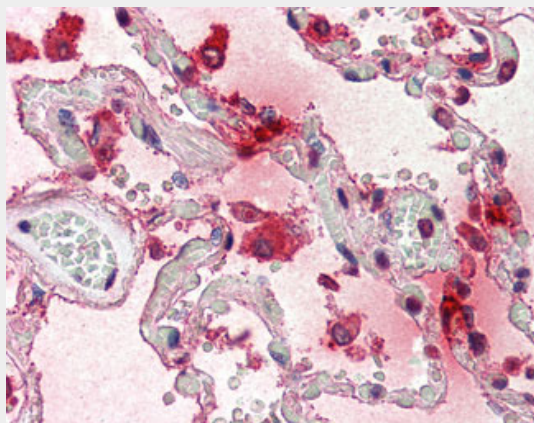
Isoform 1 and isoform 2 are expressed in lung, stomach, spleen, heart and skin; in these tissues, isoform 1 is predominant. Isoform 2 is expressed in aorta, spleen, and breast tumor, with highest levels in the endothelial cells of some blood vessels surrounding the aorta, as well as those surrounding the tumor and low levels, if any, in mast cells (at protein level)

TPSAB1 / Mast Cell Tryptase Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TPSAB1 / Mast Cell Tryptase Antibody - Images



Anti-TPSAB1 / Mast Cell Tryptase antibody IHC of human lung.

TPSAB1 / Mast Cell Tryptase Antibody - Background

Tryptase is the major neutral protease present in mast cells and is secreted upon the coupled activation-degranulation response of this cell type.

TPSAB1 / Mast Cell Tryptase Antibody - References

- Miller J.S., et al. *J. Clin. Invest.* 84:1188-1195(1989).
Schwartz L.B., et al. Submitted (MAR-1990) to the EMBL/GenBank/DDBJ databases.
Vanderslice P., et al. *Proc. Natl. Acad. Sci. U.S.A.* 87:3811-3815(1990).
Pallaoro M., et al. *J. Biol. Chem.* 274:3355-3362(1999).
Wang H.W., et al. Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.