

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Trypsase alpha/beta-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, 50-100% cross-reactivity with recombinant human (rh) TPSAB1 and recombinant mouse (rm) Mcpt6 is observed, 20-100% cross-reactiv                                 |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 349406                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human Trypsase alpha/beta-1<br>Ile31-Pro275<br>Accession # AAD13876                                                                                                                                                         |
| <b>Conjugate</b>          | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b>  | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Trypsases are trypsin-like serine proteases, and  $\beta$  trypases appear to be the main isoenzymes expressed in mast cells (1). They are stored in secretory granules of mast cells, where they form active tetramers with heparin proteoglycan. Because of the unique arrangement of the active sites in the tetramer, which are facing a narrow central pore,  $\beta$  trypases are resistant to macromolecule protease inhibitors (2). When mast cells are activated,  $\beta$  trypases are released along with other proteins in secretory granules, participating in provoking inflammatory conditions (3).  $\beta$  trypases have been implicated as mediators in the pathogenesis of asthma and other allergic disorders.

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