

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Trypsin 2/PRSS2 in direct ELISAs and Western blots. Does not cross-react with recombinant human (rh) Trypsin 1 or rhTrypsin 3. Recognizes both the pro and mature forms of rhTrypsin 2.                                                                       |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 410322                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human Trypsin 2/PRSS2<br>Ala16-Ser247<br>Accession # P07478                                                                                                                                                                 |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 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>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

Human Trypsin 2, encoded by the *PRSS2* gene, is also known as anionic Trypsin (1). Accounting for approximately 1/3 of the total trypsin content in the pancreatic juice, it is one of the trypsins produced in the pancreas. It consists of a signal peptide (residues 1-15), a pro region (residues 16-23), and a mature chain (residues 24-247). Trypsin 2 is synthesized as a zymogen and secreted into the duodenal lumen, where it is activated by enteropeptidase (2). It plays a central role in digestion and activating other pro-enzymes. In human pancreatic diseases and chronic alcoholism, it is up-regulated (3).

#### PRODUCT SPECIFIC NOTICES

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