

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Monoclonal Mouse IgG ₁ Clone # 410322
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Trypsin 2/PRSS2 Ala16-Ser247 Accession # P07478
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	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).

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