

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Trypsin Pan Specific (PRSS1/2/3) in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Trypsin 2 Ala16-Ser247 Accession # P07478
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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

Trypsin is a general term for any of three 24 kDa gene products that belong to the peptidase S1 family of enzymes. Trypsin in Greek means "rubbing or friction", and it was chosen here because the first trypsins were extracted from pancreas via a glycerin-based rubbing maceration. Trypsin-1 (cationic), -2 (anionic), and -3 (mesotrypsin) are synthesized as 26 kDa trypsinogens (plus a 35 kDa trypsinogen-3 isoform) that are 247 amino acids (aa) in length. The first 15 aa constitute a signal sequence, followed by an enterokinase-cleavable eight aa propeptide, and a 224 aa mature molecule. Asp194 is linked to enzyme activity, and Tyr154 is sulfated. Over their mature regions, the three trypsins share 84% aa identity. Mouse trypsin-1 shares 74% aa identity with the human trypsin consensus sequence. Trypsin-1 and -2 cleave peptide bonds carboxylterminal to a Lys or Arg. Trypsin-3 has limited activity on trypsin inhibitors, and thus regulates general trypsin activity. Trypsin-1, -2, and -3 are expressed by multiple tissues, including pancreas (for general digestion), liver, lung and skin. In blood, trypsinogen-1 and -2 circulate at ng/mL concentrations. In pancreatic fluid, trypsin-1, -2, and -3 are found in a 58:40:2 ratio. This antibody did not neutralize the activity of rhTrypsin 1 and rhTrypsin 3 significantly.

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