

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 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.

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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.