

DESCRIPTION

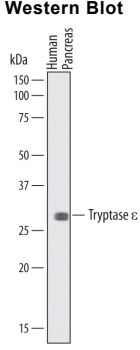
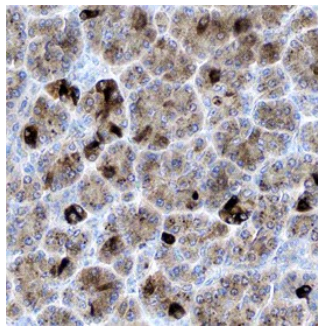
Species Reactivity	Human
Specificity	Detects human Tryptase ϵ /BSSP-4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse Tryptase ϵ /BSSP-4 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 725445
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Tryptase ϵ /BSSP-4 Ala33-Ser317 Accession # Q9GZN4
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	2 μ g/mL	See Below
Immunohistochemistry	8-25 μ g/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human Tryptase ϵ/BSSP-4 by Western Blot. Western blot shows lysates of human pancreas tissue. PVDF membrane was probed with 2 μg/mL of Mouse Anti-Human Tryptase ϵ/BSSP-4 Monoclonal Antibody (Catalog # MAB5047) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Tryptase ϵ/BSSP-4 at approximately 34 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunohistochemistry</p>  <p>Tryptase ϵ/BSSP-4 in Human Pancreas. Tryptase ϵ/BSSP-4 was detected in immersion fixed paraffin-embedded sections of human pancreas using Mouse Anti-Human Tryptase ϵ/BSSP-4 Monoclonal Antibody (Catalog # MAB5047) at 15 μg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in exocrine cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Tryptase ϵ , also known as brain-specific protease-4 (BSSP-4) and pro-semin, is expressed in the brain and epithelium-rich tissues such as the lung and eye (1, 2). BSSP-4 is a serine protease related to trypsin, preferentially hydrolyzing substrates after arginine and lysine residues. However, Tryptase ϵ is less susceptible to inhibition by common trypsin inhibitors such as aprotinin, α 1-antitrypsin and secretory leukocyte protease inhibitor (3). Tryptase ϵ efficiently converts pro-urokinase-type plasminogen activator to its mature, active form (3).

References:

1. Wong, G.W. *et al.* (2004) J. Biol. Chem. **279**:2438.
2. Wong, G.W. *et al.* (2001) J. Biol. Chem. **276**:49169.
3. Yasuda, S. *et al.* (2005) Blood **105**:3893.