

Human Tryptase ε/BSSP-4 Antibody

Monoclonal Mouse IgG_{2A} Clone # 725445 Catalog Number: MAB5047

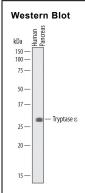
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Tryptase ε/BSSP-4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse Tryptase ε/BSSP-4 is observed.		
Source	Monoclonal Mouse IgG _{2A} Clone # 725445		
Purification	Protein 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 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm 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.

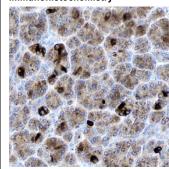
	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below
Immunohistochemistry	8-25 μg/mL	See Below

DATA



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.

Immunohistochemistry



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 heatinduced 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 Paraffinembedded Tissue Sections.

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. 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 prosemin, 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.

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