Mouse Tryptase ε/BSSP-4 Alexa Fluor® 532-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 246702

Catalog Number: FAB20592X

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Tryptase ε/BSSP-4 in ELISAs.
Source	Monoclonal Rat IgG_{2A} Clone # 246702
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Tryptase ε/BSSP-4 Ala33-Ser306 Accession # Q9ER10
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.*

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	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

Tryptase ε, brain specific serine protease 4 (BSSP-4) and brain serine protease 2 (BSP-2) are different names given for the same serine protease that is encoded by the PRSS22 gene (1-3). Initially identified having brain-specific expression, mouse Tryptase ε is preferentially expressed in epithelium-rich tissues such as the lung and eye, which is similar to its human counterpart (3). The mouse protein is synthesized with a signal peptide (amino acid residues 1 to 32), a pro peptide (residues 33 to 49) and a mature chain (residues 50 to 306) corresponding to the serine protease domain. The full-length protein was expressed and the secreted protein purified. The N-terminal sequencing result indicates that the purified protein corresponds to the pro enzyme. After activation with thermolysin, the enzyme has low activity against peptide substrates tested, but high activity against thioester substrates. The thioester activity is inhibited by 2 mM AEBSF (R&D Systems, Catalog # EI001), a general serine protease inhibitor, and by recombinant human Serpin A5 (R&D Systems, Catalog # 1266-PI).

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