

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Tryptase $\epsilon$ /BSSP-4 in ELISAs.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 246703
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse Tryptase $\epsilon$ /BSSP-4 Ala33-Ser306 Accession # Q9ER10
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

## 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.

<b>Mouse Tryptase <math>\epsilon</math>/BSSP-4 Sandwich Immunoassay</b>		<b>Reagent</b>
<b>ELISA Capture</b>	2-8 $\mu$ g/mL	Mouse Tryptase $\epsilon$ /BSSP-4 Antibody (Catalog # <a href="#">MAB20592</a> )
<b>ELISA Detection</b>	0.5-2.0 $\mu$ g/mL	Mouse Tryptase $\epsilon$ /BSSP-4 Biotinylated Antibody (Catalog # <a href="#">BAM20591</a> )
<b>Standard</b>		Recombinant Mouse Tryptase $\epsilon$ /BSSP-4 (Catalog # <a href="#">2059-SE</a> )

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Tryptase  $\epsilon$ , 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  $\epsilon$  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.

### References:

1. Wong, G.W. *et al.* (2001) *J. Biol. Chem.* **276**:49169.
2. Davies, B.J. *et al.* (1998) *J. Biol. Chem.* **273**:23004.
3. Wong, G.W. *et al.* (2004) *J. Biol. Chem.* **279**:2438.