Datasheet: MCA1438

Description: MOUSE ANTI HUMAN MAST CELL TRYPTASE

Specificity: MAST CELL TRYPTASE

Format: Purified

Product Type: Monoclonal Antibody

Clone: AA1

Isotype: IgG1

Quantity: 0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin (1)</td>
<td>•</td>
<td></td>
<td>1/10,000</td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>•</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Blotting</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunofluorescence</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species: Human

Species Cross Reactivity: Reacts with: Dog, Monkey, Cat, Rat

N.B. Antibody reactivity and working conditions may vary between species.

Product Form: Purified IgG - liquid

Preparation: Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers: 0.09% Sodium Azide

Carrier Free: Yes

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml
Immunogen
Human mast cell tryptase purified from human lung tissue.

External Database Links

<table>
<thead>
<tr>
<th>UniProt</th>
<th>Related reagents</th>
</tr>
</thead>
<tbody>
<tr>
<td>P20231</td>
<td>Related reagents</td>
</tr>
<tr>
<td>Q15661</td>
<td>Related reagents</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Entrez Gene</th>
<th>Related reagents</th>
</tr>
</thead>
<tbody>
<tr>
<td>64499 TPSB2</td>
<td>Related reagents</td>
</tr>
<tr>
<td>7177 TPSAB1</td>
<td>Related reagents</td>
</tr>
</tbody>
</table>

Synonyms
TPS1, TPS2, TPSB1

RRID
AB_322318

Fusion Partners
Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS1 myeloma cell line.

Specificity
Mouse anti Human mast cell tryptase, clone AA1 recognizes human mast cell tryptase, both alpha and beta isoforms. Mouse anti Mast cell tryptase, clone AA1 is an excellent marker for mast cells, and does not bind to any other cell type in immunohistology (Walls et al. 1990).

Tryptases are the products of a number of genes and form the major neutral protease present in mast cells secreted in response to infection and injury. Mast cell tryptase has an important role in the pathology of inflammatory diseases, especially asthma through bronchoconstriction (Zhang and Timmerman 1997).

Histology Positive Control Tissue
Tonsil

References

**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

Goat Anti Mouse IgG IgA IgM (STAR87...) **Alk. Phos.**  **HRP**  
Goat Anti Mouse IgG (STAR77...) **HRP**
Rabbit Anti Mouse IgG (STAR12...) **RPE**
Rabbit Anti Mouse IgG (STAR8...) **DyLight®800**
Rabbit Anti Mouse IgG (STAR13...) **HRP**
Goat Anti Mouse IgG (STAR76...) **RPE**
Goat Anti Mouse IgG (STAR70...) **FITC**
Goat Anti Mouse IgG (Fc) (STAR120...) **FITC, HRP**
Rabbit Anti Mouse IgG (STAR9...) **FITC**
Goat Anti Mouse IgG (H/L) (STAR117...) **Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP**

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL (MCA928)