Datasheet: MCA1438T

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI HUMAN MAST CELL TRYPTASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>MAST CELL TRYPTASE</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>AA1</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>20 µg</td>
</tr>
</tbody>
</table>

Product Details

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](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Application</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></td>
<td>1/10,000</td>
</tr>
<tr>
<td>ELISA</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.

<table>
<thead>
<tr>
<th>Target Species</th>
<th>Human</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species Cross</td>
<td>Reacts with: Dog, Monkey, Cat, Rat</td>
</tr>
<tr>
<td>Reactivity</td>
<td>N.B. Antibody reactivity and working conditions may vary between species.</td>
</tr>
<tr>
<td>Product Form</td>
<td>Purified IgG - liquid</td>
</tr>
<tr>
<td>Preparation</td>
<td>Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant</td>
</tr>
<tr>
<td>Buffer Solution</td>
<td>Phosphate buffered saline</td>
</tr>
<tr>
<td>Preservative Stabilisers</td>
<td>0.09% Sodium Azide</td>
</tr>
<tr>
<td>Carrier Free</td>
<td>Yes</td>
</tr>
<tr>
<td>Approx. Protein Concentrations</td>
<td>IgG concentration 1.0 mg/ml</td>
</tr>
</tbody>
</table>
Immunogen: Human mast cell tryptase purified from human lung tissue.

External Database Links:
- UniProt: 
P20231 Related reagents
Q15661 Related reagents
- Entrez Gene:
64499 TPSB2 Related reagents
7177 TPSAB1 Related reagents

Synonyms: TPS1, TPS2, TPSB1

RRID: AB_2206190

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:
Res. 52: 2198-208.

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
Material Safety Datasheet documentation #10040 available at:

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)