Datasheet: MCA2120

Description: MOUSE ANTI GRANZYME B

Specificity: GRANZYME B

Format: Purified

Product Type: Monoclonal Antibody

Clone: GB11

Isotype: IgG1

Quantity: 0.1 mg

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry (1)</td>
<td>✗</td>
<td></td>
<td></td>
<td>1/10 - 1/100</td>
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<tr>
<td>Immunohistology - Frozen</td>
<td>✗</td>
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<td>Immunohistology - Paraffin</td>
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<tr>
<td>ELISA</td>
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<td>2ug/ml - 5ug/ml</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<tr>
<td>Immunofluorescence</td>
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</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code BUF09) for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Chimpanzee, Monkey, Rhesus Monkey

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

Tris buffered saline

Preservative Stabilisers

0.09% Sodium azide

Approx. Protein Concentrations

IgG concentration 1.0 mg/ml
Immunogen

Purified human Granzyme B.

External Database Links

<table>
<thead>
<tr>
<th>UniProt:</th>
<th>Related reagents</th>
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</thead>
<tbody>
<tr>
<td>P10144</td>
<td></td>
</tr>
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</table>

Entrez Gene:

| GZMB | Related reagents |
| 3002 | |

Synonyms

CGL1, CSPB, CTLA1, GRB

Fusion Partners

Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

Specificity

Mouse anti Granzyme B antibody, clone GB11 recognizes the serine protease Granzyme B, which is important in the induction of apoptosis in target cells by cytolytic lymphocytes (CTLs).

Granzyme B plays a key role in the induction of apoptosis by CTLs. After delivery to the target cell, Granzyme B activates the cascade of caspases that finally results in cell death.

Mouse anti Granzyme B antibody, clone GB11 is suitable for the detection of Granzyme B expressing cells by flow cytometry. In normal peripheral blood approximately 20% of CD8+ve T cells have been found to express Granzyme B.

Flow Cytometry

Use 10ul of the suggested working dilution to label $10^6$ cells or 100ul whole blood.

ELISA

This antibody has been reported to function as a capture reagent in sandwich ELISA assays for soluble Granzyme B in conjunction with biotin conjugated GB10 as detection reagent.

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.

Shelf Life
18 months from date of despatch.

Health And Safety Information

Regulatory
For research purposes only

Related Products
Recommended Secondary Antibodies

<table>
<thead>
<tr>
<th>Antibody</th>
<th>Primary</th>
<th>Secondary</th>
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<tbody>
<tr>
<td>Goat Anti Mouse IgG (STAR77...)</td>
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<tr>
<td>Rabbit Anti Mouse IgG (STAR13...)</td>
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<td>Goat Anti Mouse IgG (Fc) (STAR120...)</td>
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<td>Goat Anti Mouse IgG (STAR76...)</td>
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<td>Goat Anti Mouse IgG (STAR70...)</td>
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North & South America
Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide
Tel: +44 (0)865 852 700
Fax: +44 (0)865 852 739
Email: antibody_sales_uk@bio-rad.com

Europe
Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

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