Datasheet: MCA5775GA
BATCH NUMBER 154012

Product Details

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI HUMAN ACTIN BETA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>ACTIN BETA</td>
</tr>
<tr>
<td>Other names:</td>
<td>ACTB</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>4C2</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

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>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td>1/50 - 1/100</td>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<tr>
<td>Immunofluorescence</td>
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</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. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Rabbit, Pig, Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture
**Buffer Solution**
Phosphate buffered saline

**Preservative Stabilisers**
0.09% Sodium Azide (NaN₃)

**Carrier Free**
Yes

**Approx. Protein Concentrations**
IgG concentration 1 mg/ml

**Immunogen**
Synthetic peptide corresponding to the acetylated N-terminal nonapeptide of beta-cytoplasmic actin, coupled to KLH.

**External Database Links**
- UniProt: P60709, Related reagents
- Entrez Gene: 60 ACTB, Related reagents

**RRID**
AB_2571580

**Specificity**
*Mouse anti Human actin beta, clone 4C2* recognizes cytoplasmic actin beta (known also as ACTB and Beta Actin), a 41.7 kDa cytoskeletal protein.

Clone 4C2 is highly specific for cytoplasmic actin β and does not react with other actin isoforms. Mouse anti Human actin beta, clone 4C2 has been used to look at the remodeling of the actin cytoskeleton following sendai virus infection and the specific role of the viral M protein in actin remodeling (*Miazza et al., 2011*).

**References**

Further Reading

Storage
Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee
12 months from date of despatch

Health And Safety Information
Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5775GA 10040

Regulatory
For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (STAR70...) FITC
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP