Datasheet: MCA1465T

<table>
<thead>
<tr>
<th>Description</th>
<th>MOUSE ANTI HUMAN DEFENSIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>DEFENSIN</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>DEF-3</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity</td>
<td>25 µg</td>
</tr>
</tbody>
</table>

Product Details

**RRID**
AB_2091686

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry (1)</td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td>0.1 - 0.5µg/ml</td>
</tr>
<tr>
<td>Immunohistology - Paraffin (2)</td>
<td>0.2 - 1.0µg/ml</td>
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<tr>
<td>ELISA</td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
</tr>
</tbody>
</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 permeabilization** is required for this application. Bio-Rad recommends the use of Leucoperm (BUF09) for this purpose.
2. **This product requires protein digestion pre-treatment of paraffin sections** e.g. trypsin or pronase.

### Target Species

Human

### Product Form

Purified IgG - liquid

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN₃) 0.5% Bovine Serum Albumin

### Approx. Protein Concentrations

IgG concentration 0.2 mg/ml

### External Database

UniProt:
Mouse anti Human defensin, clone DEF-3 recognizes the product of the human defensin alpha 1 gene, HNP-1 or neutrophil defensin 1, a 94 amino acid (including a 19aa signal peptide) member of the antibiotic alpha defensin family. Defensin alpha 1 is expressed by mature neutrophils.

Defensins are a group of small cyclic peptides which comprise approximately 30% of the total protein content of neutrophil azurophilic granules. Various functions have been reported for the defensins, including antibacterial and antifungal activity and chemotactic activity for monocytes.

Mouse anti Human defensin, clone DEF-3 recognizes alpha defensins (human neutrophil peptides) 1-3. Binding to defensin 4 has not been tested. Defensins are up-regulated during the acute phase of diseases such as shigellosis or infection with Helicobacter pylori (Kocsis et al., 2009).

References


Further Reading


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 #10041 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)**

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