

Datasheet: MCA5751

**BATCH NUMBER 174064**

<b>Description:</b>	MOUSE ANTI HUMAN EOSINOPHIL MAJOR BASIC PROTEIN
<b>Specificity:</b>	EOSINOPHIL MAJOR BASIC PROTEIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	BMK-13
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen (1)	▪			1/20 - 1/50
Immunohistology - Paraffin (2)	▪			1/20 - 1/50

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) **It is recommended that sections are fixed in a 1:1 mixture of acetone and methanol and air-dried for 1 hour. Good results may be achieved via staining with the [APAAP](#) method.**

(2) **This product requires enzymatic pre-treatment of paraffin sections prior to staining. Pepsin is recommended for this purpose. NB. Heat-mediated antigen retrieval methods should not be used.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Rat</p> <p>Reacts weakly with: Guinea Pig</p> <p><b>N.B.</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.</p>

<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Antibody purified from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P13727</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5553</a>    PRG2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	MBP
<b>RRID</b>	AB_10671914
<b>Specificity</b>	<p><b>Mouse anti Human Eosinophil Major Basic Protein antibody, clone BMK-13</b> recognises the Eosinophil Major Basic Protein (EMBP), a 117 amino acid protein, corresponding to residues 106-222 of Bone marrow proteoglycan (precursor). Mouse anti Human Eosinophil Major Basic Protein antibody, clone BMK-13 stains both resting and activated eosinophils of bronchial and skin sections of allergic and normal sites and may be considered a Pan eosinophil marker. Mouse anti Human Eosinophil Major Basic Protein antibody, clone BMK-13 cross reacts weakly with basophils which also contain low levels of EMBP. No cross reactivity with other human cells or proteins has been noted.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Moqbel, R. <i>et al.</i> (1992) Application of monoclonal antibodies against major basic protein (BMK-13) and eosinophil cationic protein (EG1 and EG2) for quantifying eosinophils in bronchial biopsies from atopic asthma. <a href="#">Clin Exp Allergy. 22 (2): 265-73.</a></li> <li>2. Hashimoto, Y. <i>et al.</i> (1993) Purification of the antibacterial fragments of guinea-pig major basic protein. <a href="#">Biochim Biophys Acta. 1203 (2): 236-42.</a></li> <li>3. Haczku, A. <i>et al.</i> (1995) T-cells subsets and activation in bronchial mucosa of sensitized Brown-Norway rats after single allergen exposure. <a href="#">Immunology. 85 (4): 591-7.</a></li> <li>4. Underwood, S. <i>et al.</i> (1995) Time-course of antigen-induced airway inflammation in the guinea-pig and its relationship to airway hyperresponsiveness. <a href="#">Eur Respir J. 8 (12): 2104-13.</a></li> <li>5. Mishima, H. <i>et al.</i> (1998) CD4+ T cells can induce airway hyperresponsiveness to allergen challenge in the brown norway rat. <a href="#">Am J Respir Crit Care Med. 158 (6): 1863-70.</a></li> <li>6. Lacy, P. <i>et al.</i> (1998) Intracellular localization of interleukin-6 in eosinophils from atopic asthmatics and effects of interferon gamma. <a href="#">Blood. 91 (7): 2508-16.</a></li> <li>7. Lacy, P. <i>et al.</i> (1999) Rapid mobilization of intracellularly stored RANTES in response to interferon-gamma in human eosinophils. <a href="#">Blood. 94 (1): 23-32.</a></li> <li>8. Walsh, G.M. <i>et al.</i> (1999) Resting and cytokine-stimulated human small airway epithelial</li> </ol>

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<b>Storage</b>	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.  Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
<b>Guarantee</b>	Guaranteed until date of expiry. Please see product label.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5751">https://www.bio-rad-antibodies.com/SDS/MCA5751</a>
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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