

Datasheet: MCA4761

**BATCH NUMBER 156396**

<b>Description:</b>	MOUSE ANTI NITROTYROSINE
<b>Specificity:</b>	NITROTYROSINE
<b>Other names:</b>	Tyr-NO2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	6B2-3G2
<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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			2 - 100ng/ml
Immunoprecipitation	▪			1.0ug/ml
Western Blotting	▪			0.1ug/ml
Immunofluorescence			▪	

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.

<b>Target Species</b>	Chemical
<b>Species Cross Reactivity</b>	Based on sequence similarity, is expected to react with:Broad <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.
<b>Product Form</b>	Purified IgG - liquid

<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant												
<b>Buffer Solution</b>	Phosphate buffered saline												
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )												
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml												
<b>Immunogen</b>	Protein-bound Nitrotyrosine.												
<b>RRID</b>	AB_1898205												
<b>Specificity</b>	<p><b>Mouse anti Nitrotyrosine antibody, clone 6B2-3G2</b> recognizes both free and protein-bound nitrotyrosine (Tyr-NO<sub>2</sub>), including human serum nitro albumin, nitro insulin and nitro haemoglobin.</p> <p>Nitrotyrosine arises from the nitration of protein tyrosine residues, by reactive nitrogen species such as peroxyxynitrite and nitrogen dioxide, and can be used as a measure of NO-dependent oxidative stress and cell damage. Increased levels of nitrotyrosine are detectable in various pathological conditions including atherosclerosis, rheumatoid arthritis, cardiovascular disease, inflammatory bowel disease and cystic fibrosis (<a href="#">Halliwell 1997</a>).</p> <p>The specificity of Mouse anti Nitrotyrosine antibody, clone 6B2-3G2 as determined by competition ELISA is:</p> <table border="0"> <tr> <td>Nitrotyrosine:</td> <td>95 % of inhibition</td> </tr> <tr> <td>Tyrosine:</td> <td>0 % of inhibition</td> </tr> <tr> <td>Nitrotryptophan:</td> <td>4 % of inhibition</td> </tr> <tr> <td>Aminotyrosine:</td> <td>0 % of inhibition</td> </tr> <tr> <td>Phosphotyrosine:</td> <td>2 % of inhibition</td> </tr> <tr> <td>Chlorotyrosine:</td> <td>3 % of inhibition</td> </tr> </table>	Nitrotyrosine:	95 % of inhibition	Tyrosine:	0 % of inhibition	Nitrotryptophan:	4 % of inhibition	Aminotyrosine:	0 % of inhibition	Phosphotyrosine:	2 % of inhibition	Chlorotyrosine:	3 % of inhibition
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<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>												

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA4761">https://www.bio-rad-antibodies.com/SDS/MCA4761</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</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>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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