

Datasheet: MCA4761

Description:	MOUSE ANTI NITROTYROSINE
Specificity:	NITROTYROSINE
Other names:	Tyr-NO ₂
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	6B2-3G2
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

RRID AB_1898205

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.

	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.

Target Species Chemical

Species Cross Reactivity Reacts with: Broad
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

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide (NaN₃)

Approx. Protein IgG concentration 1.0 mg/ml

Concentrations

Immunogen	Protein-bound Nitrotyrosine.
------------------	------------------------------

Specificity	<p>Mouse anti Nitrotyrosine antibody, clone 6B2-3G2 recognizes both free and protein-bound nitrotyrosine (Tyr-NO₂), 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 peroxynitrite 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 (Halliwell 1997).</p> <p>The specificity of Mouse anti Nitrotyrosine antibody, clone 6B2-3G2 as determined by competition ELISA is:</p> <table><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
Nitrotyrosine:	95 % of inhibition												
Tyrosine:	0 % of inhibition												
Nitrotryptophan:	4 % of inhibition												
Aminotyrosine:	0 % of inhibition												
Phosphotyrosine:	2 % of inhibition												
Chlorotyrosine:	3 % of inhibition												

Storage	<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>
----------------	--

Guarantee	18 months from date of despatch.
------------------	----------------------------------

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

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

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com
'M345283:190125'

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

Printed on 11 Oct 2019

© 2019 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)