

Datasheet: MCA2472 BATCH NUMBER 153685

Description:	MOUSE ANTI PHOSPHOTYROSINE
Specificity:	PHOSPHOTYROSINE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	PY20
lsotype:	lgG2b
Quantity:	0.5 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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry			•		
	Immunohistology - Frozen					
	Immunohistology - Paraffin			•		
	ELISA	•			100ng/ml	
	Immunoprecipitation					
	Western Blotting	•			2ug/ml	
	Immunofluorescence	•				
	necessarily exclude its use in such procedures. Suggested working dilutions are ging a guide only. It is recommended that the user titrates the antibody for use in their of system using appropriate negative/positive controls.					
Target Species Product Form	Chemical Purified IgG - liquid					
Preparation	Purified IgG prepared by affinity chromatography.					
Buffer Solution	Borate buffered saline					
Preservative Stabilisers	0.09% Sodium Azide					
Approx. Protein	lgG concentration 0.5 mg	g/ml				

Concentrations

RRID	AB_567398				
Specificity	Mouse anti Phosphotyrosine antibody, clone PY20 recognizes phosphotyrosine, enabling the detection, characterisation and isolation of proteins containing phosphorylated tyrosine residues.				
	The phosphorylation of tyrosine acts as a important signal in the control of cell mitogenesis, differentiation, proliferation, and migration and occurs following the activation of intracellular tyrosine kinases, including the T-cell receptor (TCR), epidermal growth factor (EGF) and many families of receptor and non-receptor protein tyrosine kinases (PTKs), which catalyse the transfer of ATP to a tyrosine residue on specific cell protein targets.				
	The binding of PY20 to phosphorylated tyrosines can be inhibited by free phosphotyrosine and phenylphosphate, but not by free phosphate, phosphoserine or phosphothreonine.				
	The affinity of PY20 for phosphotyrosine is 10^{-6} to 10^{-7} M.				
References	 Ruff-Jamison, S. <i>et al.</i> (1991) Heavy and light chain variable region sequences and antibody properties of anti-phosphotyrosine antibodies reveal both common and distinct features. <u>J Biol Chem. 266 (10): 6607-13.</u> Takagi, S. <i>et al.</i> (1991) Intracellular localization of tyrosine kinase substrates beneath crosslinked surface immunoglobulins in B cells. <u>J Exp Med. 174 (2): 381-8.</u> Glenney, J.R. Jr. <i>et al.</i> (1988) Monoclonal antibodies to phosphotyrosine. <u>J Immunol Methods. 109 (2): 277-85.</u> Vendel,A.C. <i>et al.</i> (2009) B and T lymphocyte attenuator regulates B cell receptor signaling by targeting Syk and BLNK. <u>J Immunol. 182: 1509-17.</u> 				
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 #10077 available at: https://www.bio-rad-antibodies.com/SDS/MCA2472 10077				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87)	HRP
Goat Anti Mouse IgG (STAR76)	RPE
Rabbit Anti Mouse IgG (STAR13)	HRP
Goat Anti Mouse IgG (STAR70)	FITC
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,
	DyLight®650, DyLight®680, DyLight®800,
	FITC, HRP
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>
Goat Anti Mouse IgG (STAR77)	HRP
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP
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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 'M366996:200529'

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Printed on 18 Jan 2024

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