

Datasheet: MCA2472P BATCH NUMBER 161100

Description:MOUSE ANTI PHOSPHOTYROSINE:HRPSpecificity:PHOSPHOTYROSINEFormat:HRPProduct Type:Monoclonal AntibodyClone:PY20Isotype:IgG2bQuantity:0.5 ml		
Format: HRP Product Type: Monoclonal Antibody Clone: PY20 Isotype: IgG2b	Description:	MOUSE ANTI PHOSPHOTYROSINE:HRP
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Clone: PY20 Isotype: IgG2b	Format:	HRP
Isotype: IgG2b	Product Type:	Monoclonal Antibody
	Clone:	PY20
Quantity: 0.5 ml	Isotype:	lgG2b
	Quantity:	0.5 ml

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.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen			•	
Immunohistology - Paraffin			•	
ELISA	•			1/1000 - 1/4000
Western Blotting			•	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Specificity	Mouse anti Phoenhoturosine antihody alone PV20 recognizes
RRID	AB_567187
Preservative Stabilisers	0.01% Thiomersal 50% Glycerol
Buffer Solution	Phosphate buffered saline
Preparation	Purified IgG prepared by affinity chromatography.
Product Form	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
Target Species	Chemical

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

- 1. Ruff-Jamison, S. *et al.* (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>
- 2. Takagi, S. *et al.* (1991) Intracellular localization of tyrosine kinase substrates beneath crosslinked surface immunoglobulins in B cells. <u>J Exp Med. 174 (2): 381-8.</u>
- 3. Glenney, J.R. Jr. *et al.* (1988) Monoclonal antibodies to phosphotyrosine. <u>J Immunol Methods</u>. 109 (2): 277-85.
- 4. Vendel,A.C. *et al.* (2009) B and T lymphocyte attenuator regulates B cell receptor signaling by targeting Syk and BLNK. <u>J Immunol. 182: 1509-17.</u>

Storage

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.

Health And Safety

Guarantee

12 months from date of despatch

Material Safety Datasheet documentation #10097 available at: https://www.bio-rad-antibodies.com/SDS/MCA2472P 10097

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

AbGUARD® HRP STABILIZER PLUS (BUF052A)
AbGUARD® HRP STABILIZER PLUS (BUF052B)
AbGUARD® HRP STABILIZER PLUS (BUF052C)
TMB CORE (BUF056A)
TMB CORE+ (BUF062A)

TMB SIGNAL+ (BUF054A)

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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 'M383931:210513'

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