

Biotin Anti-Phosphotyrosine antibody [PY20] ab16388

★★★★★ 1 Abreviews

Overview

Product name	Biotin Anti-Phosphotyrosine antibody [PY20]
Description	Biotin Mouse monoclonal [PY20] to Phosphotyrosine
Host species	Mouse
Conjugation	Biotin
Specificity	Clone PY20 specifically recognizes phosphorylated tyrosine residues and does not react with phosphorylated threonine or serine residues.
Tested applications	Suitable for: IP, WB, ICC
Species reactivity	Reacts with: Species independent
Immunogen	Phosphotyrosine coupled to carrier protein
General notes	<p>The role of tyrosine phosphorylation in transduction of the mitogenic signal from transmembrane receptors and in transformation by oncogene tyrosine kinases has been the subject of intense investigation for several years. While the phosphorylation of specific tyrosine residues has been shown to be a primary mechanism of signal transduction during normal mitogenesis, cell cycle progression and oncogenic transformation, its role in other areas such as differentiation and gap junction communication, is a matter of active and ongoing research. Antibodies that specifically recognize phosphorylated tyrosine residues have proved to be invaluable to the study of tyrosine-phosphorylated proteins biochemical pathways in which they function.</p> <p>This antibody is known to be inhibited by divalent cations (>1mM) and high salt concentrations (>0.2M).</p> <p>The purified antibody is coupled through free primary amino groups to biotin. The binding site of the antibody was protected by the addition of phenyl phosphate prior to coupling.</p> <p>Source: Hybridoma produced from Balb/C mice immunized with phosphotyrosine coupled to carrier protein.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.50 Preservative: 0.08% Sodium azide Constituents: PBS, 65% Glycerol
Purity	Protein A/G purified
Clonality	Monoclonal
Clone number	PY20
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab16388 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
WB		1/5000. Predicted molecular weight: 1 kDa.
ICC		1/500.

Target

Relevance The phosphorylation of specific tyrosine residues has been shown to be a primary mechanism of signal transduction during normal mitogenesis, cell cycle progression and oncogenic transformation, its role in other areas such as differentiation and gap junction communication, is a matter of active and ongoing research. Antibodies that specifically recognize phosphorylated tyrosine residues have proved to be invaluable to the study of tyrosine phosphorylated proteins and the biochemical pathways in which they function.

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