

## Product datasheet

# Anti-Phosphotyrosine antibody [PY20] (HRP) ab16389

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### Overview

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<b>Product name</b>	Anti-Phosphotyrosine antibody [PY20] (HRP)
<b>Description</b>	Mouse monoclonal [PY20] to Phosphotyrosine (HRP)
<b>Host species</b>	Mouse
<b>Conjugation</b>	HRP
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Species independent
<b>Immunogen</b>	Phosphotyrosine coupled to carrier protein.
<b>Positive control</b>	This antibody gave a positive signal in NIH 3T3 treated with Vanadate and PDGF Whole Cell Lysate.
<b>General notes</b>	This antibody is known to be inhibited by divalent cations (>1mM) and high salt concentrations (>0.2M).

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.50 Constituents: 0.328% Sodium phosphate, 50% Glycerol, 0.87% Sodium chloride
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	PY20
<b>Isotype</b>	IgG2b

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab16389** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

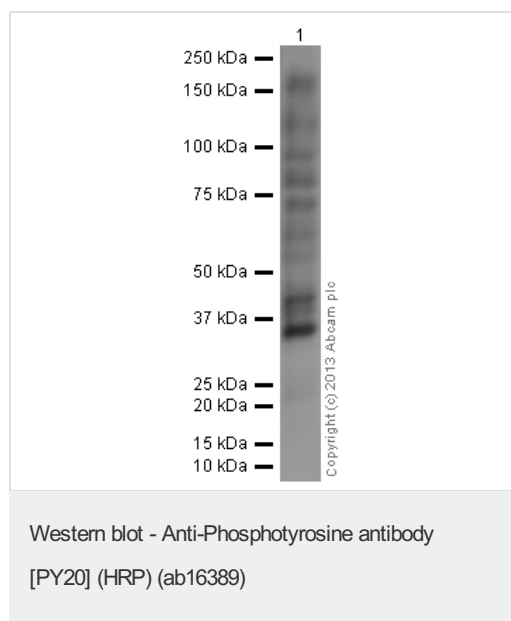
Application	Abreviews	Notes
IHC-P		1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/5000.

## 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.

## Images



Anti-Phosphotyrosine antibody [PY20] (HRP) (ab16389) at 1/5000 dilution + NIH 3T3 treated with Vanadate and PDGF Whole Cell Lysate at 10  $\mu$ g

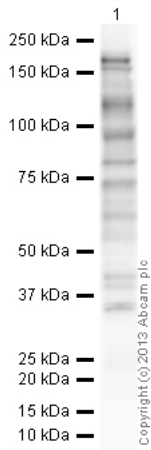
Developed using the ECL technique.

Performed under reducing conditions.

**Observed band size:** 40 kDa

[why is the actual band size different from the predicted?](#)

**Exposure time:** 10 seconds



Western blot - Anti-Phosphotyrosine antibody  
[PY20] (HRP) (ab16389)

Anti-Phosphotyrosine antibody [PY20] (HRP) (ab16389) at 1/5000 dilution ((BLOCKED WITH 3% MILK)) + NIH 3T3 treated with Vanadate and PDGF Whole Cell Lysate at 10  $\mu$ g

Developed using the ECL technique.

Performed under reducing conditions.

**Observed band size:** 40 kDa [why is the actual band size different from the predicted?](#)

**Exposure time:** 2 minutes

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