

## Mouse Monoclonal Antibody to

# Phosphotyrosine

## clone 16F4

**Order No.:** 0030-100/PTYR-16F4

**Size (µg)** 100

**Lot No.:** 0030S



02/060307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1	human, mouse, rat, dog	WB, ELISA, IP	pattern		... D - I - pY - A - E ...	phosphopeptide conjugated to KLH

### Background and Specificity:

Phosphorylation and dephosphorylation of cellular proteins are central steps in transducing extracellular signals to the cell nucleus. Phosphorylated epitopes may serve as docking sites for the assembly of protein complexes or may alter the 3-dimensional protein structure thus modulating enzymatic activity or the ability to undergo protein-protein-interactions. Modification of proteins on tyrosine residues is mediated by protein tyrosine kinases. Tyrosine phosphorylation may alter the biological activity or mediate the assembly of protein complexes via interaction of phosphotyrosine residues with SH2 or PID domains.

**Mab PTYR-16F4** recognizes phosphotyrosine in the context of the surrounding amino acids, tolerating hydrophobic amino acids directly neighbored to phosphotyrosine.

### Related Products

#### mab against Phosphotyrosine

#0027-100/pTyr-2C8

#0028-100/pTyr-3B12

#0029-100/pTyr-9H8

#0133-100/pTyr-2A5

#0156-100/pTyr-9F1

#0226-100/pTyr-1F9

<b>Purification:</b>	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
<b>Formulation:</b>	lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.
<b>Reconstitution:</b>	Reconstitute with 1 ml H <sub>2</sub> O (15 min, RT).
<b>Stability:</b>	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

**Avoid repeated freeze / thaw cycles.**

**Positive Control:** #0038: phosphotyrosine MW standard

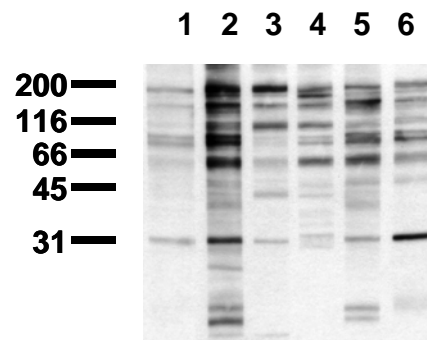
**Immunoblotting:** 0.5 µg/ml for HRPO/ECL detection  
**Recommended blocking buffer:** Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

**Immunoprecipitation:** use at 1 - 10 µg per 10<sup>6</sup> pervanadate-treated A431 cells

**Immunocytochemistry:** ND

**ELISA:** use at 0.05 µg/ml

**All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.**



#### Phosphotyrosine Detection

Lysates of pervanadate-treated A431 cells were probed with  
lane 1: mab 2A5 (IgG), 1 µg/ml  
lane 2: mab 2C8 (IgG), 1 µg/ml  
lane 3: mab 3B12 (IgG), 1 µg/ml  
lane 4: mab 9H8 (IgG), 1 µg/ml  
lane 5: mab 16F4 (IgG), 1 µg/ml  
lane 6: mab 9F1 (IgG), 1 µg/ml