

## Product datasheet for **AM00124FC-N**

### Phosphotyrosine (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 2C8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	2C8
Applications:	FC
Recommended Dilution:	Flow Cytometry.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH
Specificity:	Mab PTYR-2C8 recognizes a broad range of tyrosine--phosphorylated proteins in crude cell extracts and may therefore be particularly well-suited for the detection/screening of tyrosine phosphorylated proteins.
Formulation:	PBS/0.09% Na-Azide/PEG and Sucrose Label: FITC State: Liquid purified IgG
Concentration:	lot specific
Purification:	Size exclusion chromatography
Conjugation:	FITC
Storage:	Store the antibody at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Stability:	Shelf life: one year from despatch.



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**Background:**

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.