OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AM00123PU-N

Phosphotyrosine (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 2A5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2A5
Applications:	ELISA, IP, WB
Recommended Dilution:	**ELISA:** Use at 0.1 µg/ml. **Immunoblotting:** 0.5 µg/ml for HRPO/ECL detection. *Recommended blocking buffer:* Casein/Tween 20 based blocking and blot incubation buffer AS00002BU-N or AS00002BU-L. **Immunoprecipitation:** Use at 1-10 µg per 10e6 pervanadate-treated A431 cells. *Included Positive Control:* Phosphotyrosine MW standard.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH **Epitope:**...E-pY-M...
Specificity:	This monoconal antibody (2A5) recognizes a broad spectrum of Tyrosine phosphorylated proteins in crude cell extracts. It tolerates a negative charge N-terminal to the Phosphotyrosine residue.
Formulation:	1 ml 2 x PBS with 0.09% Sodium Azide/PEG and Sucrose. State: Purified State: Lyophilized purified IgG fraction.
Reconstitution Method:	Restore with 1 ml H2O (15 min, RT).
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography.
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) 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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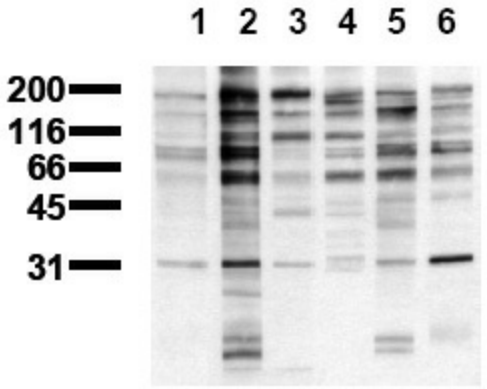
Background:

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.

Product images:



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