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Anti-Phosphoserine/threonine Antibody

Catalog # AN1898

Product Information

Application	WB, ICC, IP
Primary Accession	N/A
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	M380A/M380B

Additional Information

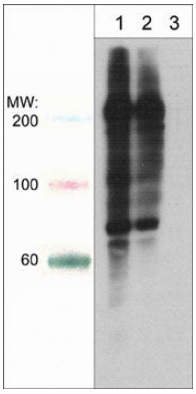
Other Names	Phosphoser/thr mAb
Dilution	WB~~1:1000 ICC~~N/A IP~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Phosphoserine/threonine Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

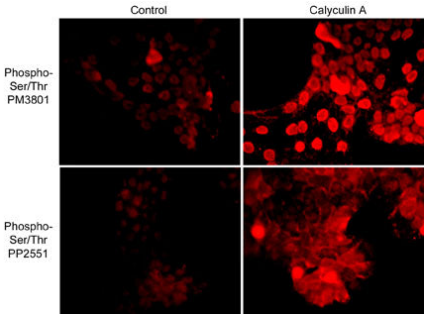
Background

Phosphorylation of specific serine or threonine residues is an important post-translational modification for regulating the activity of most proteins. Stimulation of a variety of cell signaling pathways activates the receptor and non-receptor ser/thr kinases that mediate these protein modifications. Antibodies that can detect phosphoserine or phosphothreonine residues are excellent tools for characterizing changes in the post-translational state of a broad range of phosphorylated proteins. Immunoprecipitation of proteins of interest followed by detection of phosphoserine or phosphothreonine using anti-phosphoserine antibody is commonly used to correlate changes in phosphorylation state with alterations in protein activity.

Images

Western blot analysis of A431 cells treated with calyculin A (100 nM) for 30 min (lane 1 and 2) then treated with lambda phosphatase (lane 3). The blot was probed with anti-Phosphoserine/threonine mouse monoclonal at 1:250 (lane 1) or 1:1000 (lanes 2 & 3).





Immunocytochemical labeling of phosphoserine and phosphothreonine in control and calyculin A-treated A431 cells. The cells were labeled with mouse monoclonal anti-Phosphoserine/threonine (AN1898) and rabbit polyclonal anti-Phosphoserine/threonine (PP2551), then the antibodies were detected using appropriate secondary antibodies conjugated to Cy3.