Technical Data Sheet

Purified Mouse Anti-Phosphoserine/threonine

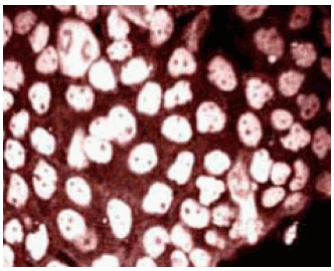
Product Information

Material Number:	**612549**
Size:	150 µg
Concentration:	250 µg/ml
Clone:	22A/pSer/Thr
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Rat
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

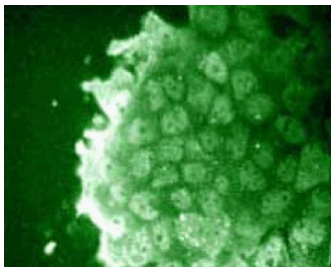
Protein phosphorylation of serine and threonine residues is critical for the control of protein activity involved in various cellular events. An assortment of Ser/Thr kinases and phosphatases regulate serine and threonine phosphorylation in cell signaling pathways, such as growth factor, cytokine, chemokine, and stress response. Detection of serine and threonine phosphorylation can generally be monitored by antibodies that detect phosphoserine and phosphothreonine.

Immunofluorescence staining of phosphoserine (clone 19; MN 612546) on A431 cells (Human epithelial carcinoma; ATCC CRL-1555).



Immunofluorescence staining of phosphoserine (clone 19; MN 612546) on A431 cells (Human epithelial carcinoma; ATCC CRL-1555) treated with 10 nM calyculin A and 500 nM okadaic acid.

Immunofluorescence staining of phosphoserine/threonine (clone 22A; MN 612548) on A431 cells (Human epithelial carcinoma; ATCC CRL-1555).



Immunofluorescence staining of phosphoserine/threonine (clone 22A; MN 612548) on A431 cells (Human epithelial carcinoma; ATCC CRL-1555) treated with 10 nM calyculin A and 500 nM okadaic acid.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml
For western blotting, a dilution of 1:2500 may be a useful starting concentration for titrations.

Suggested Companion Products

Catalog Number	Name	Size	Clone
611447	A431 Cell Lysate	500 µg	(none)
612591	A431 + Calyculin A/Okadaic Acid Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal
612546	Purified Mouse Anti-Phosphoserine	50 µg	19/pSer

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Brivanlou AH, Darnell JE Jr. Signal transduction and the control of gene expression. *Science.* 2002; 295(5556):813-818.(Biology)

Pawson T, Scott JD. Signaling through scaffold, anchoring, and adaptor proteins. *Science.* 1997; 278(5346):2075-2080.(Biology)

Yan JX, Packer NH, Gooley AA, Williams KL. Protein phosphorylation: technologies for the identification of phosphoamino acids. *J Chromatogr A.* 1998; 808(1-2):23-41.(Biology)