PRODUCT INFORMATION

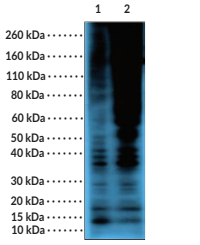
Phosphothreonine Monoclonal Antibody (Clone RM102)

Item No. 20716

Overview and Properties

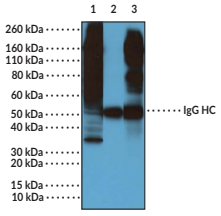
Contents:	This vial contains 100 µg of protein A affinity-purified antibody from an animal origin-free culture supernatant.
Immunogen:	Mixture of phosphothreonine-BSA conjugate and a phosphothreonine containing peptide
Cross Reactivity:	(+) Threonine-phosphorylated proteins, slight reactivity with phospho-serine peptides (-) Nonphosphorylated threonine, phosphoserine, phosphotyrosine
Species Reactivity:	(+) All species
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥1 year
Storage Buffer:	50% glycerol/PBS with 1% BSA and 0.09% sodium azide
Clone:	RM102
Host:	Rabbit
Isotype:	IgG
Applications:	Chromatin IP (ChIP), ELISA, Flow cytometry (FC), Immunocytochemistry (ICC), Immunohistochemistry (IHC), Immunoprecipitation (IP), and Western blot (WB); the recommended starting dilution is 1:100 to 1:500 for ChIP, ICC, IHC, and IP and 1:500 to 1:2,000 for WB. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Images



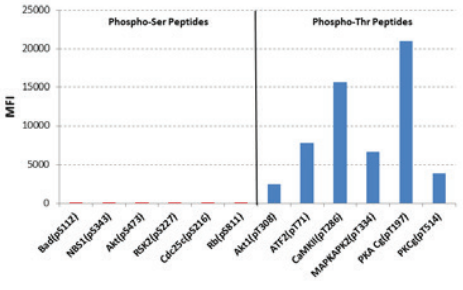
Lane 1: A431 (-)
Lane 2: CalA/Oka (+)

Western blot of serum-starved A431 cells nontreated or treated with Calyculin A/Okadaic Acid, using Phosphothreonine Monoclonal Antibody (Clone RM102) at a dilution of 1:2,000.

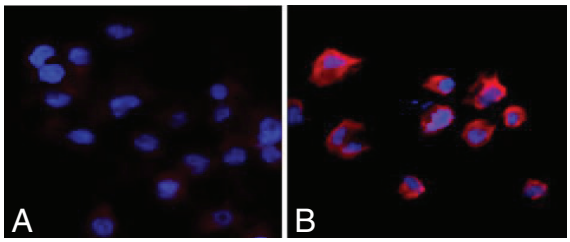


Lane 1: Whole lysate control
Lane 2: IP by rabbit IgG control
Lane 3: IP by RM102

Immunoprecipitation of Calyculin A/Okadaic Acid treated A431 cells by Phosphothreonine Monoclonal Antibody (Clone RM102) at a dilution of 1:500 and then blotted with RM102.



Phosphothreonine Monoclonal Antibody (Clone RM102) recognizes phosphorylated threonine in peptides with different sequences. It has minimal cross-reactivity with phosphorylated serine.



Panel A: Immunocytochemistry of serum-starved A431 cells nontreated or *Panel B:* Treated with Calyculin A/Okadaic Acid using Phosphothreonine Monoclonal Antibody (Clone RM102) at a dilution of 1:500 (followed by a PE-conjugated secondary antibody, (red) and DAPI (blue).

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Description

Phosphothreonine Monoclonal Antibody (Clone RM102) is a probe for immunochemical detection of phosphorylated threonine residues on proteins by immunoblotting, immunohistochemistry, or immunocytochemistry. The phosphorylation of threonine residues by serine/threonine kinases serves a variety of purposes, including altering activity, stability, and interaction with other biomolecules. Phosphorylation may be persistent or transient, with dephosphorylation mediated by phosphatases.

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