PRODUCT INFORMATION

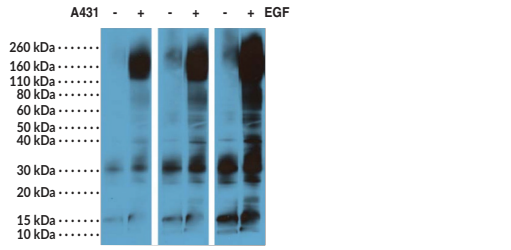
Phosphotyrosine Monoclonal Antibody (Clone RM111)

Item No. 20717

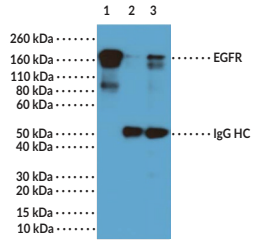
Overview and Properties

Contents:	This vial contains 100 µg of protein A affinity-purified antibody from an animal origin free culture supernatant
Immunogen:	Phosphotyrosine-BSA conjugate
Cross Reactivity:	(+) Tyrosine-phosphorylated proteins; (-) Nonphosphorylated tyrosine, phosphoserine, phosphorthreonine
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:	RM111
Host:	Rabbit
Isotype:	IgG
Applications:	Western blot (WB), Chromatin IP (ChIP), ELISA, Flow Cytometry (FC), Immunocytochemistry (ICC), Immunohistochemistry (IHC), Immunoprecipitation (IP); the recommended starting dilution for WB is 1:1,000 to 1:5,000, 1:200 to 1:1,000 for IP and ChIP, and 1:200 to 1:500 for ICC and IHC. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Images

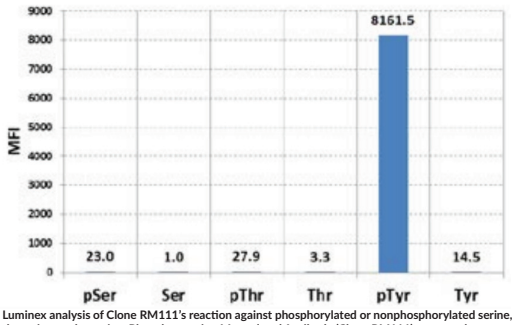


Western blot of serum-starved A431 cells nontreated or treated with EGF, using Phosphotyrosine Monoclonal Antibody (Clone RM111) at 1:5,000 dilution. The blot was exposed to the film from left to right at different time points.

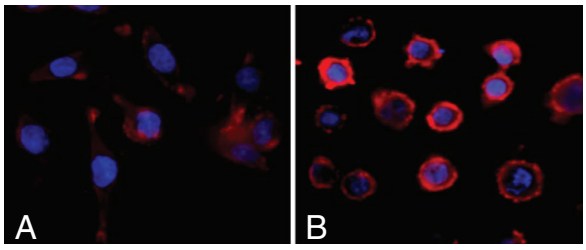


Lane 1: Whole lysate control
Lane 2: IP by rabbit IgG control
Lane 3: IP by Clone RM111

Immunoprecipitation of EGF-treated A431 cells by Phosphotyrosine Monoclonal Antibody (Clone RM111) 1:1,000 dilution, was blotted with an anti-EGFR rabbit monoclonal antibody.



Luminex analysis of Clone RM111's reaction against phosphorylated or nonphosphorylated serine, threonine, and tyrosine. Phosphotyrosine Monoclonal Antibody (Clone RM111) reacts only to phosphorylated tyrosine.



Panel A: **Immunocytochemistry of serum-starved A431 cells nontreated or *Panel B:* Treated with EGF, using Phosphotyrosine Monoclonal Antibody (Clone RM111) at 1:500 dilution (followed by a PE conjugated secondary antibody, (red) and DAPI (blue).**

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Description

Phosphotyrosine Monoclonal Antibody (Clone RM111) is a probe for immunochemical detection of phosphorylated tyrosine residues on proteins by immunoblotting. The phosphorylation of tyrosine residues by tyrosine 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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