

For Research Use Only

Phospho-Ezrin (Tyr354) Recombinant monoclonal antibody

Catalog Number: 88246-2-RR



Basic Information

Catalog Number: 88246-2-RR	GenBank Accession Number: NM_0011111077	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 7430	CloneNo.: 260442B10
Source: Rabbit	ENSEMBL Gene ID: ENSG00000092820	Recommended Dilutions: WB: 1:1000-1:4000
Isotype: IgG	UNIPROT ID: P15311	
	Full Name: ezrin	
	Calculated MW: 69 kDa	
	Observed MW: 80 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : EGF treated A431 cells,
Species Specificity: human	

Background Information

Ezrin is a member of the ERM (Ezrin, Radixin, Moesin) protein family and serves as a crucial linker between the cell membrane and the actin cytoskeleton. Phospho-Ezrin (Tyr354), also annotated as Tyr353 in early literature, is a tyrosine-phosphorylated active form of ERM scaffold protein Ezrin encoded by the EZR gene. Triggered by HGF receptor tyrosine kinase, this modification unlocks Ezrin's autoinhibited conformation and enables high-affinity binding to the p85 regulatory subunit of PI3K. It sustains PI3K/Akt survival signaling, suppresses epithelial apoptosis, and drives cytoskeleton remodeling for cell migration and tubulogenesis. Unique from Thr567-phosphorylated Ezrin at cell membranes, p-Ezrin (Tyr354) translocates into nuclei in osteosarcoma and lung cancer. Its elevated nuclear expression correlates with tumor invasion, metastasis, and poor clinical prognosis, marking it a promising malignant progression biomarker. (PMID: 10377409, 20348881)

Storage

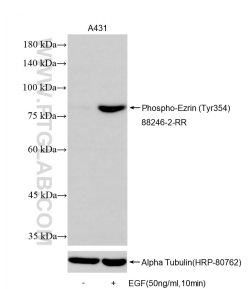
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Non-treated A431 cells and EGF (HZ-1326) treated A431 cells were subjected to SDS PAGE followed by western blot with 88246-2-RR (Phospho-Ezrin (Tyr354) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (HRP-80762) antibody as a loading control.