

For Research Use Only

Phospho-Ezrin (Tyr354) Recombinant monoclonal antibody, PBS Only

Catalog Number: 88246-2-PBS



Basic Information

Catalog Number:

88246-2-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_0011111077

GeneID (NCBI):

7430

ENSEMBL Gene ID:

ENSG00000092820

UNIPROT ID:

P15311

Full Name:

ezrin

Calculated MW:

69 kDa

Observed MW:

80 kDa

Purification Method:

Protein A purification

CloneNo.:

260442B10

Applications

Tested Applications:

WB, Indirect ELISA

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 -80°C.

Storage Buffer:

PBS only, pH7.3

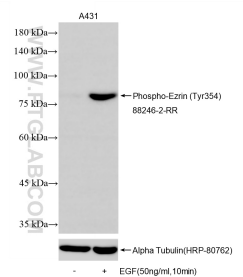
For technical support and original validation data for this product please contact:

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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. This data was developed using the same antibody clone with 88246-2-PBS in a different storage buffer formulation.