

Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb

Catalog No.: AP1594 **Recombinant**

Basic Information

Observed MW

75-80 kDa

Calculated MW

23-71 kDa

Category

Primary antibody

Applications

WB, ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC72405

Background

The ezrin, radixin, and moesin (ERM) proteins function as linkers between the plasma membrane and the actin cytoskeleton and are involved in cell adhesion, membrane ruffling, and microvilli formation. ERM proteins undergo intra or intermolecular interaction between their amino- and carboxy-terminal domains, existing as inactive cytosolic monomers or dimers. Phosphorylation at a carboxy-terminal threonine residue (Thr567 of ezrin, Thr564 of radixin, Thr558 of moesin) disrupts the amino- and carboxy-terminal association and may play a key role in regulating ERM protein conformation and function. Phosphorylation at Thr567 of ezrin is required for cytoskeletal rearrangements and oncogene-induced transformation. Ezrin is also phosphorylated at tyrosine residues upon growth factor stimulation. Phosphorylation of Tyr353 of ezrin transmits a survival signal during epithelial differentiation.

Recommended Dilutions

WB 1:30000 - 1:120000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$) a sequential dilution method is strongly recommended to ensure measurement accuracy.

Contact

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Immunogen Information

Gene ID

7430/5962/4478

Swiss Prot

P15311/P35241/P26038

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

CVL; CVIL; VIL2; HEL-S-105; DFNB24; Radixin; HEL70; IMD50; Moesin

Product Information

Source

Rabbit

Isotype

IgG

Purification

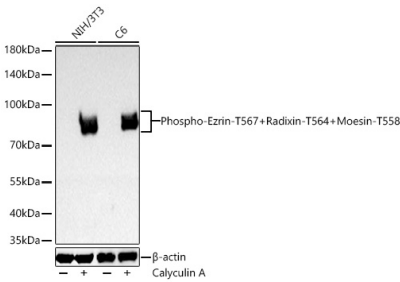
Affinity purification

Storage

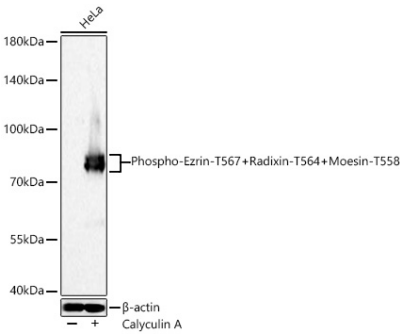
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of various lysates using Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb (AP1594) at 1:100000 dilution incubated at room temperature for 1.5 hours. NIH/3T3 cells and C6 cells were treated with Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5 s.



Western blot analysis of lysates from HeLa cells using Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb (AP1594) at 1:60000 dilution incubated overnight at 4°C. HeLa cells were treated with Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 45 s.