

Phospho-Ezrin-Thr567/Radixin-Thr564/Moesin-Thr558 Rabbit pAb

Catalog No.: AP1284

Basic Information

Observed MW

75-80 kDa

Calculated MW

23-71 kDa

Category

Primary antibody

Applications

WB, ELISA

Cross-Reactivity

Human

Background

The cytoplasmic peripheral membrane protein encoded by this gene functions as a protein-tyrosine kinase substrate in microvilli. As a member of the ERM protein family, this protein serves as an intermediate between the plasma membrane and the actin cytoskeleton. This protein plays a key role in cell surface structure adhesion, migration and organization, and it has been implicated in various human cancers. A pseudogene located on chromosome 3 has been identified for this gene. Alternatively spliced variants have also been described for this gene. Radixin is a cytoskeletal protein that may be important in linking actin to the plasma membrane. It is highly similar in sequence to both ezrin and moesin. The radixin gene has been localized by fluorescence in situ hybridization to 11q23. A truncated version representing a pseudogene (RDXP2) was assigned to Xp21.3. Another pseudogene that seemed to lack introns (RDXP1) was mapped to 11p by Southern and PCR analyses. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. Moesin (for membrane-organizing extension spike protein) is a member of the ERM family which includes ezrin and radixin. ERM proteins appear to function as cross-linkers between plasma membranes and actin-based cytoskeletons. Moesin is localized to filopodia and other membranous protrusions that are important for cell-cell recognition and signaling and for cell movement.

Recommended Dilutions

WB 1:500 - 1:1000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

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; DFN24; HEL70; IMD50; Phospho-Ezrin-Thr567/Radixin-Thr564/Moesin-Thr558

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

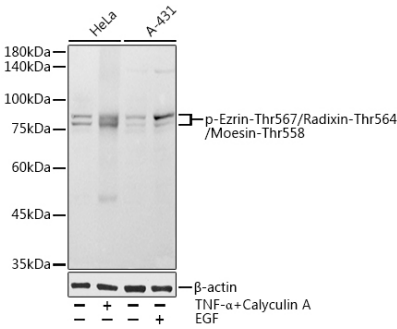
Affinity purification

Storage

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

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of various lysates using Phospho-Ezrin-Thr567/Radixin-Thr564/Moesin-Thr558 Rabbit pAb (AP1284) at 1:1000 dilution. HeLa cells were treated with TNF- α (20 ng/ml) and Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight. A-431 cells were treated with EGF (100 ng/ml) 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: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.