

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

Catalog No.: AP1663

Recombinant

Basic Information

Observed MW

75-80 kDa

Calculated MW

23-71 kDa

Category

Monoclonal Antibodies

Applications

WB, IF/ICC, IHC-P, ELISA

Cross Reactivity

Human, Mouse, Rat

Clone No.

ARC4270

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

1:6000 – 1:30000(Human); 1:50000 – 1:150000(Mouse & Rat)

IF/ICC 1:200 – 1:1000

IHC-P 1:1000 – 1:4000

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.

Immunogen Information

Gene ID

7430/5962/4478

Swiss-Prot

P15311/P35241/P26038

Immunogen

This information is considered to be commercially sensitive.

Synonyms

CVL; CVIL; VIL2; HEL-S-105; DFN24; Radixin; HEL70; IMD50; Moesin

Contact

 | 400-999-6126

 | cn.market@abclonal.com.cn
 | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

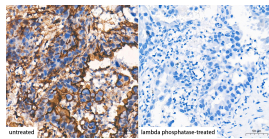
Purity

Affinity purification

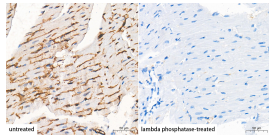
Storage

Store at -20°C

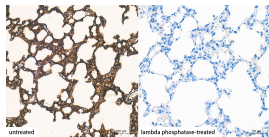
Validation Data



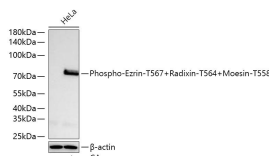
Immunohistochemistry analysis of paraffin-embedded Human lung adenocarcinoma tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb (AP1663) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse heart tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb (AP1663) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat lung tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb (AP1663) at a dilution of 1:2000 (40x lens). Microwave antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Western blot analysis of lysates from HeLa cells using Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb (AP1663) at 1:14000 dilution incubated overnight at 4°C. HeLa cells treated with CA (100 nM) at 37°C for 10 minutes.

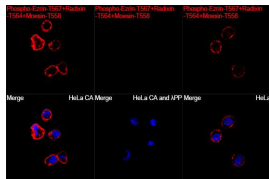
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

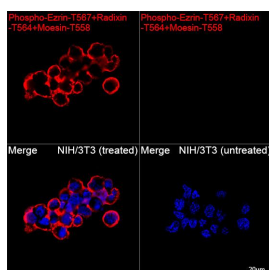
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

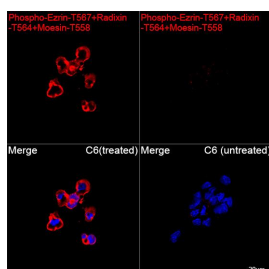
Exposure time: 1 s.



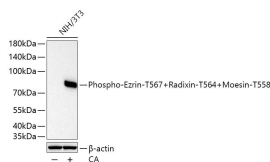
Confocal imaging of HeLa cells treated with CA, HeLa cells treated with CA and JPP, and untreated HeLa cells using Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb (AP1663, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of NIH/3T3 cells (treated with CA) and NIH/3T3 cells (untreated) using Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb (AP1663, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells (treated with CA) and C6 cells (untreated) using Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb (AP1663, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Western blot analysis of lysates from NIH/3T3 cells using Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb (AP1663) at 1:140000 dilution incubated overnight at 4°C. NIH/3T3 cells treated with CA (100 nM) at 37°C for 30 minutes.

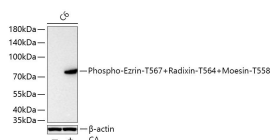
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 45 s.



Western blot analysis of lysates from C6 cells using Phospho-Ezrin-T567+Radixin-T564+Moesin-T558 Rabbit mAb (AP1663) at 1:140000 dilution incubated overnight at 4°C. C6 cells treated with CA (100 nM) at 37°C for 30 minutes.

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: 60 s.