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Rabbit Anti-Phospho-Ezrin (Tyr353)/AP Conjugated antibody

SL3133R-AP

Product Name	Anti-Phospho-Ezrin (Tyr353)/AP
Chinese Name	碱性磷酸酶（AP）标记的磷酸化埃兹蛋白抗体
Alias	Ezrin (phospho Y353); Ezrin (phospho Tyr353); p-Ezrin (phospho Y353); Ezrin (phospho Y354); Ezrin (phospho Tyr354); CVIL; CVL; cytovillin 2; Cytovillin; DKFZp762H157; FLJ26216; MGC1584; p81; VIL 2; VIL2; Villin 2; Villin2; EZRI_HUMAN.
Product Type	Phosphorylated anti
Research Area	Tumour Cardiovascular Cell biology Signal transduction transcriptional regulatory factor
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Dog,Pig,Cow,Horse,Rabbit)
Applications	WB=1000-10000,ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	64kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated Synthesised phosphopeptide derived from human Ezrin around the phosphorylation site of Tyr353
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**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.

Function:
Probably involved in connections of major cytoskeletal structures to the plasma membrane. In epithelial cells, required for the formation of microvilli and membrane ruffles on the apical pole. Along with PLEKHG6, required for normal macropinocytosis.

Subunit:
Interacts with MPP5 and SLC9A3R2. Found in a complex with EZR, PODXL and SLC9A3R2 (By similarity). Interacts with MCC, PLEKHG6, PODXL, SCYL3/PACE1, SLC9A3R1 and TMEM8B. Interacts (when phosphorylated) with FES/FPS.

Subcellular Location:
Apical cell membrane. Cell projection. Cell projection > microvillus membrane. Cell projection > ruffle membrane. Cytoplasm > cell cortex. Cytoplasm > cytoskeleton. Localization to the apical membrane of parietal cells depends on the interaction with MPP5. Localizes to cell extensions and peripheral processes of astrocytes (By similarity). Microvillar peripheral membrane protein.

Tissue Specificity:
Expressed in cerebral cortex, basal ganglia, hippocampus, hypophysis, and optic nerve. Weakly expressed in brain stem and diencephalon. Stronger expression was detected in gray matter of frontal lobe compared to white matter (at protein level). Component of the microvilli of intestinal epithelial cells. Preferentially expressed in astrocytes of hippocampus, frontal cortex, thalamus, parahippocampal cortex, amygdala, insula, and corpus callosum. Not detected in neurons in most tissues studied.

Post-translational modifications:
Phosphorylated by tyrosine-protein kinases.

Similarity:
Contains 1 FERM domain.

Database links:

Entrez Gene: 7430 Human

Entrez Gene: 281574 Cow

Entrez Gene: 22350 Mouse

Omim: 123900 Human

SwissProt: P31976 Cow

SwissProt: P15311 Human

SwissProt: P26040 Mouse

Unigene: 487027 Human

Unigene: 277812 Mouse

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

信号传导（Signaling Intermediates）

目前研究发现 Ezrin 蛋白与维持细胞的形状、极性、生长运动以及 Signal transduction 方面发挥重要作用，该蛋白与 Tumour 的侵袭、转移有关。