

Rabbit Ezrin Polyclonal Antibody | anti-EZR antibody

Phospho-Ezrin (Tyr478) Antibody

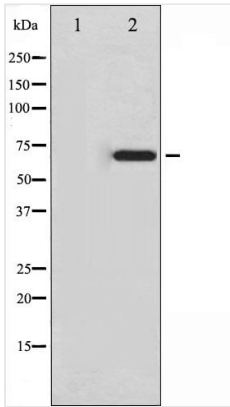
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31010	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

Ezrin; Polyclonal Antibody; Phospho-Ezrin (Tyr478) Antibody; Villin 2 ezrin; CVIL; CVL; Cytovillin 2; Cytovillin; DKFZp762H157; Epididymis secretory protein Li 105; EZR; EZRI_HUMAN; FLJ26216; HEL S 105; MGC1584; p81; VIL 2; VIL2; Villin 2 (ezrin); Villin 2; Villin-2; Villin2; anti-EZR antibody

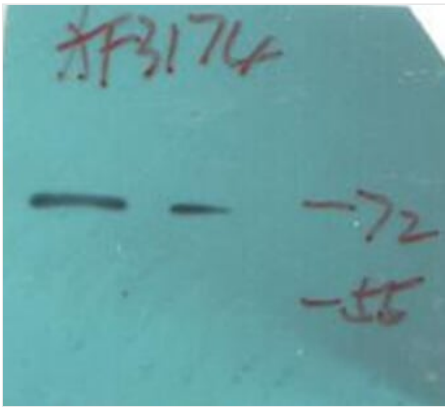
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Ezrin (Tyr478) antibody detects endogenous levels of Ezrin only when phosphorylated at Tyrosine 478
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	586
Applicable Applications for anti-EZR antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:100-1:500 IF/ICC: 1:100-1:500
Immunogen	A synthesized peptide derived from human Ezrin around the phosphorylation site of Tyrosine 478
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.
Conjugation	Unconjugated
Epitope	Phospho Tyr478
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



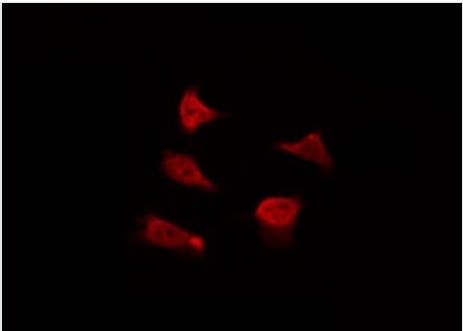
WB (Western Blot)

Western blot analysis of Ezrin phosphorylation expression in Na3VO4 treated K562 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



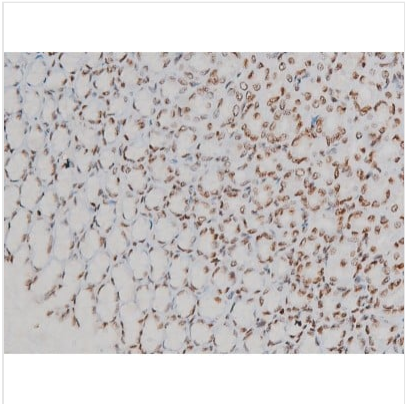
WB (Western Blot)

Western blot analysis of Phospho-Ezrin (Tyr478) Antibody expression in Na3VO4 treated K562 cells lysates. The lane on the right is treated with the antigen-specific peptide.



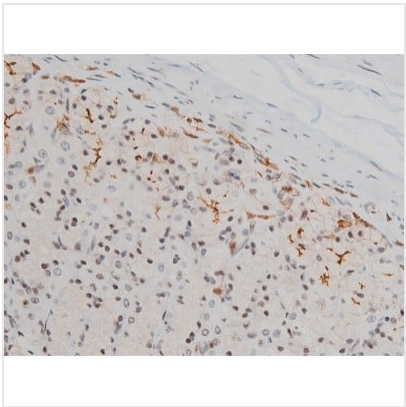
IF (Immunofluorescence)

AAA31010 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



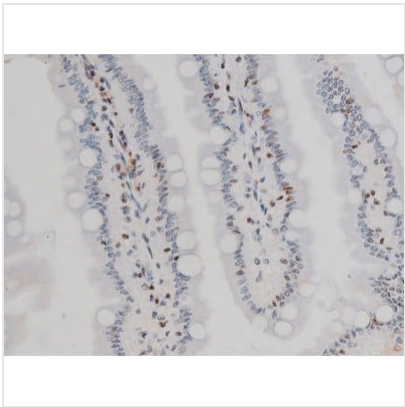
IHC (Immunohistochemistry)

AAA31010 at 1/200 staining Rat ganstric tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)

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IHC (Immunohistochemistry)

AAA31010 at 1/200 staining Rat intestinal tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-EZR antibody	Description: 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. 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 Structure: 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 (PubMed:9314537, PubMed:12651155, PubMed:15498789, PubMed:17616675, PubMed:17881735, PubMed:19555689). Interacts (when phosphorylated) with FES/FPS (PubMed:18046454). Interacts with dimeric S100P, the interaction may be activating through unmasking of F-actin binding sites (PubMed:12808036, PubMed:19111582). Identified in complexes that contain VIM, EZR, AHNAK, BFSP1, BFSP2, ANK2, PLEC, PRX and spectrin (By similarity). Detected in a complex composed of at least EZR, AHNAK, PPL and PRX (By similarity). Interacts with PDPN (via cytoplasmic domain); activates RHOA and promotes epithelial-mesenchymal transition (PubMed:17046996). Interacts with SPN, CD44 and ICAM2 (By similarity). Post-translational Modifications: Phosphorylated by tyrosine-protein kinases. Phosphorylation by ROCK2 suppresses the head-to-tail association of the N-terminal and C-terminal halves resulting in an opened conformation which is capable of actin and membrane-binding (By similarity). S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-density lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex. Similarity: The [IL]-x-C-x-x-[DE] motif is a proposed target motif for cysteine S-nitrosylation mediated by the iNOS-S100A8/A9 transnitrosylase complex.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	161702986
NCBI GeneID	7430
NCBI Accession #	NP_001104547.1
NCBI GenBank Nucleotide #	NM_001111077.1
UniProt Accession #	P15311; P23714; Q4VX75; Q96CU8; Q9NSJ4; E1P5A8
Molecular Weight	Observed: 70 kDa Predicted: 70 kDa
NCBI Official Full Name	ezrin
NCBI Official Synonym Full Names	ezrin
NCBI Official Symbol	EZR
NCBI Official Synonym Symbols	CVL; CVIL; VIL2; HEL-S-105
NCBI Protein Information	ezrin
UniProt Protein Name	Ezrin
UniProt Gene Name	EZR
UniProt Synonym Gene Names	VIL2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ezrin-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/31010>