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Goat Anti-Ezrin / villin 2 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1389a

Specification

Goat Anti-Ezrin / villin 2 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P15311
Other Accession	NP_003370, 7430, 22350 (mouse), 54319 (rat)
Reactivity	**Human**
Predicted	**Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**69413**

Goat Anti-Ezrin / villin 2 Antibody - Additional Information

Gene ID 7430

Other Names
Ezrin, Cytovillin, Villin-2, p81, EZR, VIL2

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-Ezrin / villin 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Ezrin / villin 2 Antibody - Protein Information

Name EZR

Synonyms VIL2

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.

Cellular Location
Apical cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection. Cell projection, microvillus membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, ruffle membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cell cortex. Cytoplasm, cytoskeleton. Cell projection, microvillus {ECO:0000250|UniProtKB:P26040}. Note=Localization to the apical membrane of parietal cells depends on the interaction with PALS1 Localizes to cell extensions and peripheral processes of astrocytes (By similarity). Microvillar peripheral membrane protein (cytoplasmic side). {ECO:0000250|UniProtKB:P31977}

Tissue Location
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

Goat Anti-Ezrin / villin 2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-Ezrin / villin 2 Antibody - Images

AF1389a (1 µg/ml) staining of Human Placenta lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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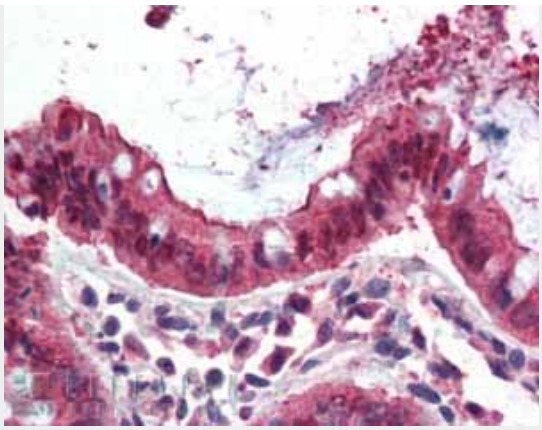
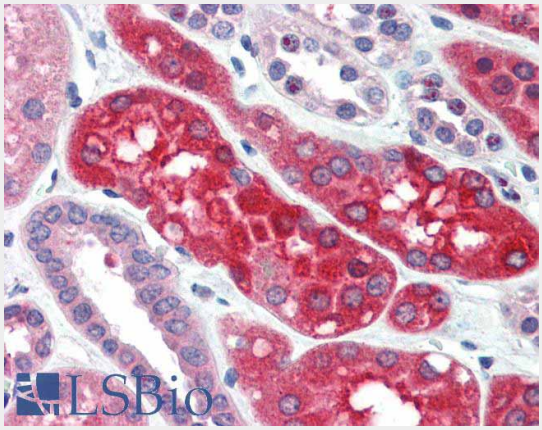


AF1389a (3.8 µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



AF1389a (3.75 µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-Ezrin / villin 2 Antibody - 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.

Goat Anti-Ezrin / villin 2 Antibody - References

Ezrin immunoreactivity in renal cell carcinomas. Tuna B, et al. Anal Quant Cytol Histol, 2009 Oct. PMID 20701102.
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Immunoexpression of Ezrin and CD44 in patients with osteosarcoma. Boldrini E, et al. J Pediatr Hematol Oncol, 2010 Aug. PMID 20562647.
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