

Uniprot ID: [P15311](#)

Protein name: EZRI\_HUMAN

# Ezrin-1

Full name: Ezrin

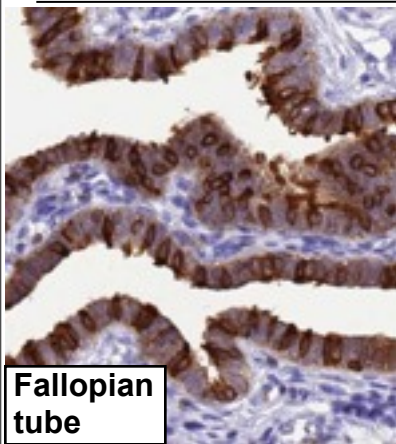
**Protein existence:** evidence at protein level

**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.

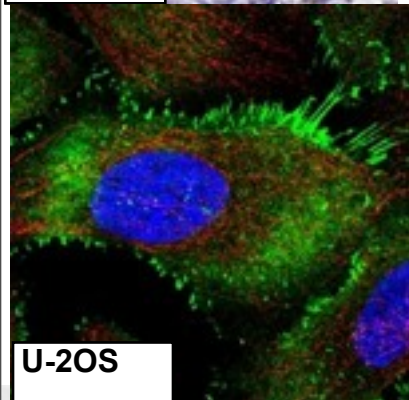
**Subcellular location:** Apical cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection. Cell projection; Microvillus membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection; Ruffle membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm; Cell cortex. Cytoplasm; Cytoskeleton.

**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.

**One antibody: Ezrin-1 was tested, approved for IHC and selected for full protein profiling.**



Fallopian tube



U-2OS

## Ezrin-1 (CAB047324)

OK

### Immunohistochemistry

**IHC protocol:** HIER pH 6, Dilution 1:40000

**IHC test staining:** Cytoplasm/membrane in all tissues.

### IHC Annotators comments

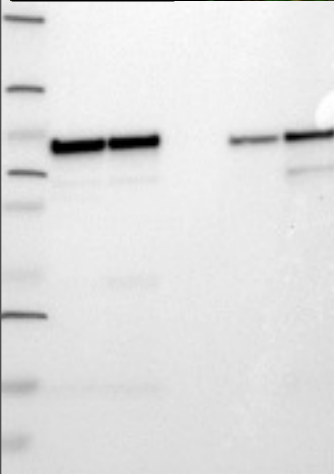
Most normal tissues showed moderate to strong cytoplasmic staining with additional membranous positivity in several cases. Astrocytes showed strong nuclear and cytoplasmic staining. Hepatocytes, islets of Langerhans, cerebellum, muscle and soft tissues were weakly stained or negative

### Immunofluorescence

**IF Overlay:** antibody (green), anti-tubuline (red) and DAPI (blue)

**IF Localization:** Staining of plasma membrane in all three cell lines.

**IF Validation:** The subcellular location is supported by literature.



### Western blot

**WB Size markers (kDa):** 250, 130, 95, 72, 55, 36, 28, 17, 11

**WB Lanes:** Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)

**WB Target weight (kDa):** 69, 69, 66

**WB Validation:** Supportive (Band of predicted size in kDa (+/-20%) with additional bands present.)