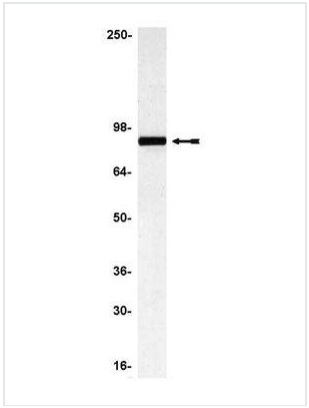
Ezrin (EZR) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Ezrin, Polyclonal Antibody
Full Product Name	Ezrin (Radixin, Moesin, Cytovillin, p81, Membrane-organizing extension spike protein) (MaxLight 405)
Product Gene Name	anti-EZR antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human Ezrin, Mr 81kD. Species Crossreactivity: Mouse. Predicted to cross-react with rat based on sequence homology.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	69,413 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (159186773..159240456, complement). Location: 6q25.3
OMIM	123900
3D Structure	ModBase 3D Structure for P15311
Immunogen	Synthetic peptide corresponding to amino acids 479-498 of human Ezrin (C-EPVSYHVQESLQDEGAEPTG), KLH-conjugated.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-EZR antibody	Antibodies; Actin Related Proteins
Applications Tested/Suitable for anti-EZR antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-EZR antibody	IHC-P: 10ug/ul detects Ezrin in paraffin embedded human skin tissue sections. WB: 0.1-1ug/ml detected Ezrin in RIPA lysates from A431 cells and a mourine brain lysate. Applications are based on unconjugated antibody.
Related Product Information for anti-EZR antibody	ERM (Ezrin-Radixin-Moesin) proteins function as plasma membrane-actin cytoskeleton linkers and participate in the formation of specialized domains of the plasma membrane. One function of ezrin is in determining survival of epithelia cells by activating the P1-3-kinase/Akt pathway.
Product References and Citations for anti-EZR antibody	1. Tsukita, S. and S. Yonemura, (1999). JBC, 274:34507.
Other Notes	Small volumes of anti-EZR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for EZR purchase	MBS6475490 is an antibody targeting EZR. Also known as Ezrin (Radixin, Moesin, Cytovillin, p81, Membrane-organizing extension spike protein) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit.



Testing Data of anti-EZR antibody
A431 cell lysate was probed with E9100-01B Ezrin (0.5ug/ml). Arrow indicates Ezrin (81kD).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EZR. It may not necessarily be applicable to this product.

NCBI GI #	161702986
NCBI GeneID	7430
NCBI Accession #	NP_001104547.1
UniProt Primary Accession #	P15311
UniProt Secondary Accession #	P23714; Q4VX75; Q96CU8; Q9NSJ4; E1P5A8
UniProt Related Accession #	P15311
GenBank Nucleotide #	NM_003379
NCBI Official Full Name	ezrin
NCBI Official Synonym Full Names	ezrin
NCBI Official Symbol	EZR
NCBI Official Synonym Symbols	CVL; CVIL; VIL2
UniProt Protein Name	Ezrin
UniProt Synonym Protein Names	Cytovillin; Villin-2; p81
Protein Family	Ezrin
UniProt Gene Name	EZR
UniProt Synonym Gene Names	VIL2
UniProt Entry Name	EZRI_HUMAN
NCBI Protein Information	ezrin; p81; villin-2; cytovillin 2; villin 2 (ezrin)
NCBI Summary for EZR	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. [provided by RefSeq, Jul 2008]

UniProt Comments for EZR	Ezrin: a member of the ERM family which includes radixin and moesin. ERM proteins appear to function as cross-linkers between plasma membranes and actin-based cytoskeletons. Plays a key role in cell surface structure adhesion, migration, and organization. Protein type: Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 6q25.3 Cellular Component: cortical cytoskeleton; extracellular space; focal adhesion; microvillus; basolateral plasma membrane; T-tubule; actin filament; cytosol; actin cytoskeleton; lipid raft; ruffle; extrinsic to membrane; membrane; microvillus membrane; apical part of cell; apical plasma membrane; plasma membrane; nucleolus; uropod; vesicle; filopodium Molecular Function: actin filament binding; protein domain specific binding; protein binding; cell adhesion molecule binding Biological Process: microvillus biogenesis; axon guidance; actin filament bundle formation; regulation of cell shape; leukocyte adhesion; filopodium formation; cytoskeletal anchoring; receptor internalization; membrane to membrane docking; establishment of epithelial cell polarity
Research Articles on EZR	**1.** Ezrin expression affects the cellular protrusions/microvilli formation, anchorage-independent growth, cell migration and invasion in the pancreatic cancer cell line Panc-1.
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