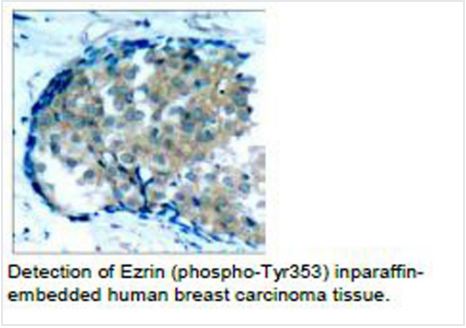
Ezrin (EZR) Antibody – Polyclonal

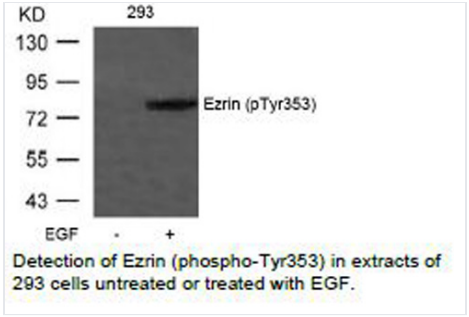
PRODUCT OVERVIEW

Product Name	Ezrin, Polyclonal Antibody
Full Product Name	Ezrin (Phospho-Tyr353)
Product Gene Name	anti-EZR antibody
Clonality	Polyclonal
Form/Format	100ul at 1.0mg/ml in PBS (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-purified on phosphopeptide; non-phosphopeptide- reactive antibodies were removed by chromatography on non-phosphorylated peptide.
Specificity	This antibody detects endogenous human Ezrin only when phosphorylated at tyrosine 353.
Preparation and Storage	This antibody is stable for at least one (1) year at -20 degree C. Can be stored at 4 degree C for short-term.
Molecular Weight	69,413 Da
OMIM	X51521 mRNA
3D Structure	ModBase 3D Structure for P15311
Antigen	Peptide sequence that includes phosphorylation site of tyrosine 353 (Q-D-Y(p)-E-E) derived from human Ezrin and conjugated to KLH.
Applications Tested/Suitable for anti-EZR antibody	Immunoblotting (IB), Immunohistochemistry (IHC)
Application Notes for anti-EZR antibody	Immunoblotting: use at dilution of 1:500-1:1,000. A band of ~81kDa is detected. Immunohistochemistry: use at dilution of 1:50- 1:100. Dilute in PBS or medium that is identical to that used in the assay system.
Related Product Information for anti-EZR antibody	Ezrin (also known as cytovillin or villin-2) is encoded by the EZR gene. 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. It plays a key role in cell surface structure adhesion, migration, and organization. The N-terminal FERM domain strongly binds sodium-hydrogen exchanger regulatory factor (NHERF) proteins (involving long-range allostery). The C-terminal ERM domain binds to actin, phosphatidylinositol(4,5)bis-phosphate (PIP2) and membrane proteins like CD44 and ICAM-2.
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	MBS191074 is an antibody targeting EZR. Also known as Ezrin (Phospho-Tyr353).



Detection of Ezrin (phospho-Tyr353) inparaffin-embedded human breast carcinoma tissue.

Immunohistochemistry (IHC) of anti-EZR antibody



Detection of Ezrin (phospho-Tyr353) in extracts of 293 cells untreated or treated with EGF.

Testing Data of anti-EZR antibody

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_001111077.1
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
UniProt Protein Name	Ezrin
UniProt Synonym Protein Names	Cytovillin; Villin-2; p81
Protein Family	Ezrin
UniProt Gene Name	EZR
UniProt Synonym Gene Names	VIL2
NCBI Protein Information	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: actin cytoskeleton; actin filament; apical part of cell; apical plasma membrane; basolateral plasma membrane; brush border; cell projection; cell-cell adherens junction; cortical cytoskeleton; cytoplasm; cytosol; endosome; extracellular space; extrinsic to membrane; filopodium; focal adhesion; immunological synapse; membrane; microvillus; nucleolus; perinuclear region of cytoplasm; plasma membrane; ruffle; vesicle Molecular Function: actin binding; actin filament binding; ATPase binding; cell adhesion molecule binding; microtubule binding; protein binding; protein domain specific binding Biological Process: actin cytoskeleton reorganization; actin filament bundle formation; astral microtubule organization and biogenesis; axon guidance; cortical microtubule organization and biogenesis; establishment of centrosome localization; establishment of epithelial cell polarity; filopodium formation; gland morphogenesis; leukocyte adhesion; membrane to membrane docking; microvillus biogenesis; negative regulation of T cell receptor signaling pathway; negative regulation of transcription from RNA polymerase II promoter; phosphoinositide-mediated signaling; positive regulation of protein secretion; regulation of actin cytoskeleton organization and biogenesis; regulation of cell shape; regulation of cell size
Research Articles on EZR	**1.** Ezrin protein is highly expressed in human PHC tissue which can be used for the prediction of metastasis disease.
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