

Recombinant Human EZR, His-tagged

Cat. No. EZR-26818TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 138-586 of Human Ezrin with N terminal His tag; Predicted MWt 55kDa.
Species	Human
Source	E.coli
ProteinLength	138-586 a.a.
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. 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.
Conjugation	HIS
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
Form	Lyophilised:Reconstitute with 74 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	NKEVHKSGYLSSERLIPQRVMDQHKLTRDQWEDRIQVWHA EHRGMLKDNAMLEYL KIAQDLEMYGINYFEIKNKKGTD LWLGVDALGLNIYEKDDKLT PKIGFPWSEIRNISFN DK KFKVIKPIDKKAPDFVFYAPRLRINKRILQLCMGNHELY MRRRKPD TIEVQQMKAQ AREEKHQKQLERQQLETEKKR RETVEREKEQMMREKEELMLRLQDYEEKTKKAER ELSEQI QRALQLEEEERKRAQEEAERLEADRMAALRAKEELERQA VDQIKSQEQLAA ELAEYTAKIALLEEARRRKEDEVEEW QHRAKEAQDDL VKTKEELHLVMTAPPPPP PVYEPVSY HVQESLQDEGA EPTGYSAELSSEGIRDDRNEEKRITEA EKNERVQRQ LLTLSSSELSQARDENKRTHNDIIHNENMRQGRDKYKTLRQIRQGNTKQRIDEFEAL
Sequence Similarities	Contains 1 FERM domain.

GENE INFORMATION

Gene Name	EZR ezrin [<i>Homo sapiens</i>]
Official Symbol	EZR
Synonyms	EZR; ezrin; VIL2, villin 2 (ezrin); cytovillin 2;
Gene ID	7430
mRNA Refseq	NM_001111077
Protein Refseq	NP_001104547

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MIM	123900
Uniprot ID	P15311
Chromosome Location	6q25.3
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; FAS (CD95) signaling pathway, organism-specific biosystem; Gastric acid secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem;
Function	actin filament binding; cell adhesion molecule binding; cytoskeletal protein binding; protein binding;