

# Recombinant Human Ezrin/EZR Protein

Catalog No.: RP02986LQ **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	7430	P15311

### Tags

No tag

### Synonyms

Ezrin; Cytovillin; Villin-2; p81; EZR; VIL2

## Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS-PAGE.

### Endotoxin

&lt;1EU/μg

### Formulation

Supplied as a 0.2 μm filtered solution of 10mM HEPES, pH 7.4.

### Reconstitution

## Background

Ezrin is expressed in cerebral cortex, basal ganglia, hippocampus, hypophysis, and optic nerve. The N-terminus of ezrin contains a FERM domain which is further subdivided into three subdomains. The C-terminus contain a ERM domain. As a member of the ERM protein family, Ezrin 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. Ezrin probably involved in connections of major cytoskeletal structures to the plasma membrane. The N-terminal FERM domain strongly binds sodium-hydrogen exchanger regulatory factor (NHERF) proteins (involving long-range allostery). The C-terminal binds to actin, phosphatidylinositol bis-phosphate (PIP2) and membrane proteins like CD44 and ICAM-2. In epithelial cells, Ezrin is required for the formation of microvilli and membrane ruffles on the apical pole. Along with PLEKHG6, Ezrin is required for normal macropinocytosis.

## Basic Information

### Description

Recombinant Human Ezrin/EZR Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Leu586) of human Ezrin/EZR (Accession #NP\_001104547.1) fused with no additional amino acid.

### Bio-Activity

### Storage

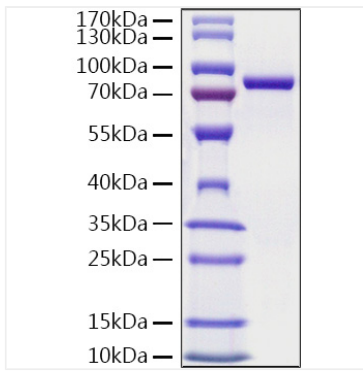
This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze/thaw cycles.

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Validation Data

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Recombinant Human Ezrin/EZR Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 80 KDa.