Ezrin (Phospho-Tyr353 Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 43063

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.

BACKGROUND

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.

SPECIFICATION SUMMARY

Antigen: Peptide sequence that includes phosphorylation site of tyrosine 353 (Q-D-Y(p)-E-E) derived from human Ezrin and conjugated to KLH.

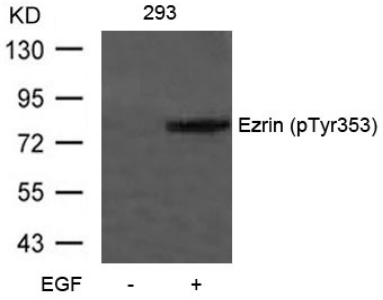
Host Species: Rabbit

Specificity: This antibody detects endogenous human Ezrin only when phosphorylated at tyrosine 353.

Accession no.: P15311, NP_001104547.1

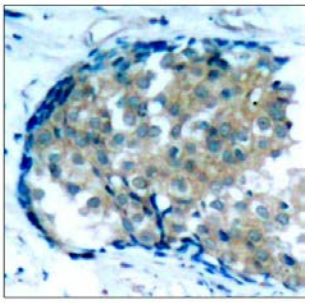
APPLICATIONS

Immunoblotting: use at dilution of 1:500-1:1,000. A band of ~81kDa is detected.



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

Immunohistochemistry: use at dilution of 1:50-1:100.



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

These are recommended working dilutions. Enduser should determine optimal dilutions for their application.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Can be stored at 4°C for short-term.

For in vitro investigational use only. Not intended for therapeutic or diagnostic applications.

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