Product datasheet

Anti-Ezrin/EZR Antibody

Catalog Number: *A01750-2*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Ezrin/EZR Antibody
Gene Name	EZR
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat, monkey
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Ezrin/EZR, which shares 85.7% amino acid (aa) sequence identity with mouse and rat EZR.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	81 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Ezrin also known as cytovillin or villin-2 is a protein that in humans 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. 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.

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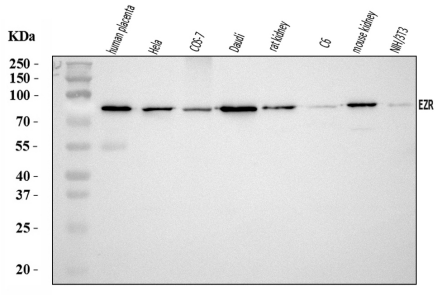
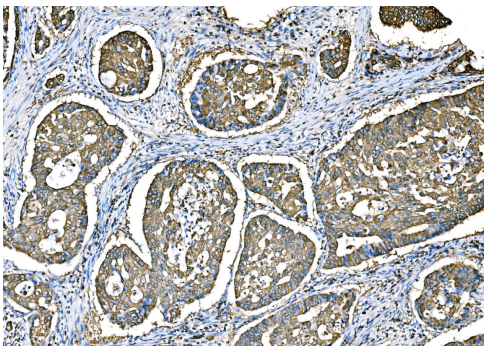
Alternatively spliced variants have also been described for this gene.

Selected Validation Data



Western blot analysis of Ezrin/EZR using anti-Ezrin/EZR antibody (A01750-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human placenta tissue lysates,
Lane 2: Hela whole cell lysates,
Lane 3: COS-7 whole cell lysates,
Lane 4: Daudi whole cell lysates,
Lane 5: rat kidney tissue lysates,
Lane 6: C6 whole cell lysates,
Lane 7: mouse kidney tissue lysates,
Lane 8: NIH/3T3 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Ezrin/EZR antigen affinity purified polyclonal antibody (A01750-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Ezrin/EZR at approximately 81 kDa. The expected band size for Ezrin/EZR is at 69 kDa.



IHC analysis of Ezrin/EZR using anti-Ezrin/EZR antibody (A01750-2). Ezrin/EZR was detected in a paraffin-embedded section of human adenocarcinoma of the right colon tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Ezrin/EZR Antibody (A01750-2) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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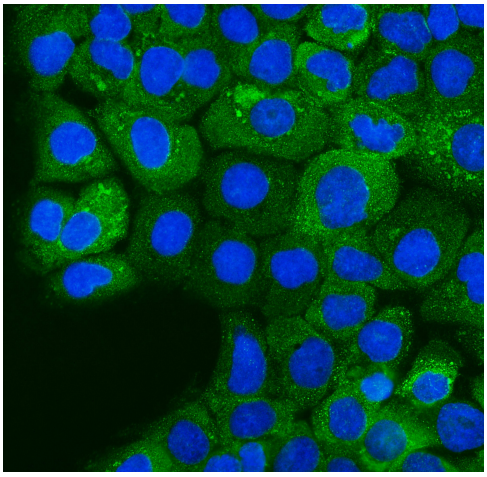
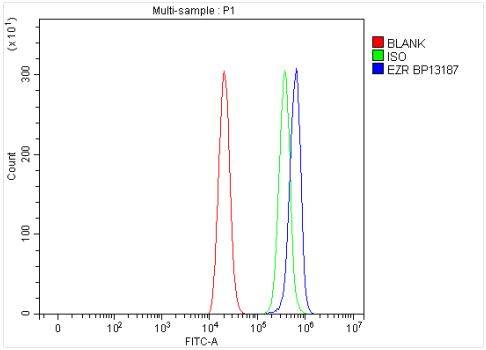


ICC/IF analysis of Ezrin/EZR using anti-Ezrin/EZR antibody (A01750-2).
Ezrin/EZR was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-Ezrin/EZR Antibody (A01750-2) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of THP-1 cells using anti-Ezrin/EZR antibody (A01750-2).
Overlay histogram showing THP-1 cells stained with A01750-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Ezrin/EZR Antibody (A01750-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.