**Background**

Ezrin, Moesin and Radixin belong to a family of highly homologous actin-associated proteins that are localized just beneath the plasma membrane. The proteins are believed to be involved in the mediation of interactions between cytoskeletal and membrane proteins. Ezrin serves as a major cytoplasmic substrate of various protein-tyrosine kinases, including the epidermal growth factor receptor. Ezrin has also been identified as a cAMP-dependent protein kinase (A-kinase) anchoring protein and designated AKAP78. Moesin and Radixin share over 70% homology with Ezrin and are coexpressed within various cell types. Despite the high degree of homology, the three proteins exhibit a distinct receptor-specific pattern of phosphorylation.

**References**


**Source**

Ezrin (H-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 549-584 at the C-terminus of Ezrin of human origin.

**Product**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Ezrin (H-4) is available conjugated to agarose (sc-398542 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398542 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398542 PE), fluorescein (sc-398542 FITC), Alexa Fluor® 488 (sc-398542 AF488), Alexa Fluor® 546 (sc-398542 AF546), Alexa Fluor® 594 (sc-398542 AF594) or Alexa Fluor® 647 (sc-398542 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398542 AF680) or Alexa Fluor® 790 (sc-398542 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-398542 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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**Applications**

Ezrin (H-4) is recommended for detection of Ezrin, Ermin, Radixin and Moesin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of Ezrin: 87 kDa.

Positive Controls: C2C12 whole cell lysate: sc-364188, c4 whole cell lysate: sc-364186 or Ramos cell lysate: sc-2216.

**Recommended Support Reagents**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting LuminoL Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG HRP: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

**Data**

Ezrin (H-4): sc-398542. Western blot analysis of Ezrin expression in Ramos (A), Raji (B), NAMALWA (C), WR19 (D), c4 (E) and C2C12 (F) whole cell lysates.

Ezrin (H-4): sc-398542. Immunofluorescence staining of methanol-fixed HeLa cells showing membrane localization (A), Immunoperoxidase staining of formalin fixed, paraffin-embedded human appendix tissue showing cytoplasmic and membrane staining of glandular cells and lymphoid cells (B).

**Storage**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**Research Use**

For research use only, not for use in diagnostic procedures.

**Protocols**

See our web site at www.scbt.com for detailed protocols and support products.