Ezrin (3C12): sc-58758

**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.

**CHROMOSOMAL LOCATION**

Genetic locus: EZR (human) mapping to 6q25.3; Ezr (mouse) mapping to 17A1.

**SOURCE**

Ezrin (3C12) is a mouse monoclonal antibody raised against amino acids 382-585 of Ezrin of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin. Ezrin (3C12) is available conjugated to agarose (sc-58758 AC), 500 µg/0.25 ml of agarose in 1 ml, for IP; to HRP (sc-58758 HRP), 200 µg/ml, for WB, IHC(P), and ELISA; to either phycoerythrin (sc-58758 PE), fluorescein (sc-58758 FITC), Alexa Fluor® 488 (sc-58758 AF488), Alexa Fluor® 546 (sc-58758 AF546), Alexa Fluor® 594 (sc-58758 AF594) or Alexa Fluor® 647 (sc-58758 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-58758 AF680) or Alexa Fluor® 790 (sc-58758 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Ezrin (3C12) is recommended for detection of Ezrin of mouse, rat, human and bovine origin by Western Blotting (starting dilution to be determined by researcher, dilution range ), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution to be determined by researcher, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution to be determined by researcher, dilution range 1:50-1:500).


Molecular Weight of Ezrin: 87 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

**STORAGE**

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