
anti-Ezrin

Cat #: HM1139
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Ezrin is a cytoplasmic protein enriched in microvilli and other cell surfaces. Together with Moesin and Radixin they form a family of highly homologous actin-associated proteins that mediate the interactions between cytoskeletal and membrane proteins. Ezrin is a major cytoplasmic substrate of various protein-tyrosine kinases, including the epidermal growth factor receptor. It plays a key role in cell surface structure adhesion, migration, and organization.

SPECIFICITY

This antibody reacts with Ezrin of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry. It may also react with Radixin and Moesin.

Molecular Weight of Ezrin: 81 kDa.

Western blotting positive controls: A431 cell lysate.

IMMUNOGEN

A peptide mapping at the carboxy terminus of human Ezrin.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

1. Lankes, W.T. and Furthmayr, H. 1991. Moesin: a member of the protein 4.1-talin-ezrin family of protein. Proc. Natl. Acad. Sci. USA 88: 8297-8301.
2. Sato, N., Funayama, N., Nagafuchi, A., Yonemura, S., Tsukita, S., and Tsukita, S. 1992. A gene family consisting of ezrin, radixin and moesin. Its specific localization at actin filament/plasma membrane association sites. J. Cell Sci. 103: 131-143.
3. Fazioli, F., Wong, W.T., Ullrich, S.J., Sakaguchi, K., Appella, E., and Di Fiore, P.P. 1993. The ezrin-like family of tyrosine kinase substrates: receptor-specific pattern of tyrosine phosphorylation and relationship to malignant transformation. Oncogene 8: 1335-1345.
4. Tsukita, S., Oishi, K., Sato, N., Sagara, J., Kawai, A., and Tsukita, S. 1994. ERM family members as molecular linkers between the cell surface glycoprotein CD44 and actin-based cytoskeletons. J. Cell Biol. 126: 391-401.
5. Algrain, M., Turunen, O., Vaheri, A., Louvard, D., and Arpin, M. 1993. Ezrin contains cytoskeleton and membrane binding domains accounting for its proposed role as a membrane-cytoskeletal linker. J. Cell Biol. 120: 129-139.
6. Gould, K.L., Bretscher, A., Esch, F.S., and Hunter, T. 1989. cDNA cloning and sequencing of the protein-tyrosine kinase substrate, ezrin, reveals homology to band 4.1. EMBO J. 8: 4133-4142.

7. Andreoli, C., Martin, M., Le Borgne, R., Reggio, H., and Mangeat, P. 1994. Ezrin has properties to self-associate at the plasma membrane. J. Cell Sci. 107: 2509-2521.
8. Dransfield, D.T., Bradford, A.J., Smith, J., Martin, M., Roy, C., Mangeat, P.H., and Goldenring, J.R. 1997. Ezrin is a cyclic AMP-dependent protein kinase anchoring protein. EMBO J. 16: 35-43.
9. Autero, M., Heiska, L., Ronnstrand, L., Vaheri, A., Gahmberg, C.G. and Carpen, O. (2003) Ezrin is a substrate for Lck in T cells. FEBS Lett. 535, 82-86.
10. Khanna, C., Wan, X., Bose, S., Cassaday, R., Olomu, O., Mendoza, A., Yeung, C., Gorlick, R., Hewitt, S.M. and Helman, L.J. (2004) The membrane-cytoskeleton linker ezrin is necessary for osteosarcoma metastasis. Nat. Med. 10, 182-186.

PRODUCT FROM HYPROMATRIX, INC.**A. AntibodyArray™s:**

1. Signal Transduction AntibodyArray™
Catalog Number HM3000
2. Apoptosis AntibodyArray™
Catalog Number HM4000
3. Cell Cycle AntibodyArray™
Catalog Number HM5000

B. Staining AntibodyArray™s

1. Staining AntibodyArray™ I
Catalog Number HM8100
2. AntibodyArray Staining Apparatus
Catalog Number HM8000

C. Antibodies**1. HRP-conjugated antibodies**

- anti-phosphotyrosine
Catalog Number HM2040
- anti-phosphoserine
Catalog Number HM2070
- anti-phosphothreonine
Catalog Number HM2090

and more...

2. Primary antibodies

Hypromatrix offers a variety of high quality antibodies. For a complete list of antibodies and their specificities, please visit our web site at www.hypromatrix.com.

CONTACT

Hypromatrix, Inc.
100 Barber Avenue
Worcester, MA 01606
USA

Tel: 508-856-7900
Fax: 508-302-0748
Email: contact@hypromatrix.com
Web: www.hypromatrix.com