Anti-Mouse Ephrin B1 Purified

Catalog Number: 14-5300
Also known as: EFL-3, ELK ligand, EPH-related receptor tyrosine kinase ligand 2, LERK 2
For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Mouse Ephrin B1 Purified
Catalog Number: 14-5300
Clone: 25H11
Concentration: 0.5 mg/mL
Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
Batch Code: Refer to vial
Use By: Refer to vial
Contains sodium azide

Description

The monoclonal antibody 25H11 recognizes mouse Ephrin B1, a 47 kDa membrane protein. Ephrin B1 belongs to a family of ephrins composed of type A (linked to the cell membrane through a glycosylphosphatidyl inositol group) or type B (transmembrane) proteins. The type B ephrins consist of 3 members (B1, B2, and B3) each of which contains a cytoplasmic domain containing tyrosine residues that can be phosphorylated. Ephrin B and ephrin B receptors (Eph B) can interact to potentiate bidirectional downstream signaling between cells expressing either or both the ligand and receptor. Ephrins have been shown to play a role in neural crest cell development through both neurogenesis and neural migration, as well as development of kidney and heart cyto-architecture. Overexpression of type B ephrins in cancer cells is associated with increased vascularity and highly invasive tumors.

Applications Reported

This 25H11 antibody has been reported for use in immunohistochemical staining of frozen tissue sections and immunoprecipitation.

Applications Tested

This 25H11 antibody has been tested immunohistochemistry on frozen mouse kidney tissue sections at less than or equal to 10 ug/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Arthur A, Zannettino A, Panagopoulos R, Koblar SA, Sims NA, Stylianou C, Matsuo K, Gronthos S. EphB/ephrin-B interactions mediate human MSC attachment, migration and osteochondral differentiation. Bone. 2011 48(3):533-42.

Ogawa K, Wada H, Okada N, Harada I, Nakajima T, Pasquale EB, Tsuyama S. EphB2 and ephrin-B1 expressed in the adult kidney regulate the cytoarchitecture of medullary tubule cells through Rho family GTPases.J Cell Sci. 2006 119(Pt 3):559-70.

Davy A, Aubin J, Soriano P. Ephrin-B1 forward and reverse signaling are required during mouse development. Genes Dev. 2004 18(5):572-83.

Stuckmann I, Weigmann A, Shevchenko A, Mann M, Huttner WB Ephrin B1 is expressed on neuroepithelial cells in correlation with neocortical neurogenesis. J Neurosci. 2001 21(8):2726-37. (25H11, IHC-F)

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com

Anti-Mouse Ephrin B1 Purified

Catalog Number: 14-5300
Also known as: EFL-3, ELK ligand, EPH-related receptor tyrosine kinase ligand 2, LERK 2
For Research Use Only. Not for use in diagnostic procedures.

Related Products
00-4953 IHC /ICC Blocking Buffer - Low Protein
00-4954 20X TBS Wash Buffer for IHC/ICC
00-4958 Fluoromount-G™
14-4301 Rat IgG1 K Isotype Control Purified

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com