

Datasheet

EPHB3 monoclonal antibody (M01), clone 1B3

Catalog Number: H00002049-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant EPHB3.

Clone Name: 1B3

Immunogen: EPHB3 (NP_004434, 899 a.a. ~ 997 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:

AASLKVIASAQSGMSQPLLDRTVPDYTTFTTVGDWLD
AIKMGRYKESFVSAGFASFDLVAQMTAEDLLRIGVTLA
GHQKKILSSIQDMRLQMNQTLPVQ

Host: Mouse

Reactivity: Human

Applications: ELISA, IHC-P, S-ELISA, WB-Ce, WB-Re, WB-Tr

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG2a Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 2049

Gene Symbol: EPHB3

Gene Alias: ETK2, HEK2, TYRO6

Gene Summary: Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their

structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene is a receptor for ephrin-B family members. [provided by RefSeq]

References:

1. The simultaneous expression of both ephrin B3 receptor and E-cadherin in Barrett's adenocarcinoma is associated with favorable clinical staging. Schauer MC, Stoecklein NH, Theisen J, Kropil F, Baldus S, Hoelscher A, Feith M, Bolke E, Matuschek C, Budach W, Knoefel WT. *Eur J Med Res.* 2012 May 14;17:10. doi: 10.1186/2047-783X-17-10.
2. Complementary expression and repulsive signaling suggest that EphB receptors and ephrin-B ligands control cell positioning in the gastric epithelium. Ogawa K, Takemoto N, Ishii M, Pasquale EB, Nakajima T. *Histochem Cell Biol.* 2011 Sep 30.
3. Complementary expression of EphB receptors and ephrin-B ligand in the pyloric and duodenal epithelium of adult mice. Ishii M, Nakajima T, Ogawa K. *Histochem Cell Biol.* 2011 Sep;136(3):345-56. Epub 2011 Aug 5.