

Product datasheet for **AP02707PU-S**

Ephrin B2 (EFNB2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Suitable for use in in Western blot (1:500-1:1000).
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized non-phosphopeptide derived from human Ephrin-B2 around the phosphorylation site of tyrosine 316 (P-V-Yp-I-V).
Specificity:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Ephrin-B2 antibody AP02707PU detects endogenous levels of total Ephrin-B2 protein.
Formulation:	PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	ephrin B2
Database Link:	Entrez Gene 1948 Human P52799



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Background:

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 ligand-activated form of EphB2, which belongs to the Tyr family of protein kinases, interacts with multiple proteins, including GTPase-activating protein (RASGAP) and also interacts with PRKCABP and GRIP1. This type I membrane protein is expressed in brain, heart, lung, kidney, placenta, pancreas, liver and skeletal muscle. It is preferentially expressed in fetal brain. Ephrin-B2 also binds EphA4, EphB1, EphB2, EphB3 and EphB4. Ephrin-B2 can be detected on monocytes, mesangial cells, CD34+ stem cells, bone marrow fibroblasts, activated melanocytes and melanoma cells, and pre-artery endothelial cells.

Synonyms:

EFNB2, EPLG5, HTKL, LERK5, HTK-L, LERK-5, HTK ligand

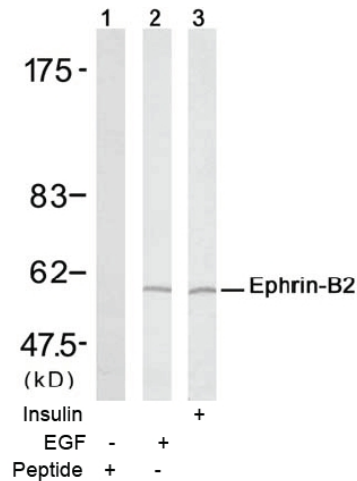
Product images:


Figure 1. Western blot analysis of extract from HUVEC cells, untreated or treated with Insulin or EGF, using Ephrin-B2 antibody.