

Product datasheet for **AM20426SU-N**

Eph receptor B2 (EPHB2) (17-200) Mouse Monoclonal Antibody [Clone ID: 2D12C6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2D12C6
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	ELISA: 1/10000. Immunofluorescence: 1/200 - 1/1000. Immunohistochemistry on Paraffin Sections: 1/200 - 1/400. Western Blot: 1/500 - 1/2000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of EphB2 (aa17-200) expressed in E. Coli.
Specificity:	Recognizes Ephrin Type B Receptor 2 (EPHB2).
Formulation:	State: Ascites State: Ascites fluid containing 0.03% Sodium Azide as preservative.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	EPH receptor B2
Database Link:	Entrez Gene 2048 Human P29323



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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) through its SH2 domain. It binds RASGAP through the juxtamembrane tyrosines residues, 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. This protein contains putatively 2 fibronectin type III domains and 1 sterile alpha motif (SAM) domain.

Synonyms:

Ephrin type-B receptor 2, DRT, EPHT3, EPTH3, ERK, HEK5, TYRO5, NY-REN-47

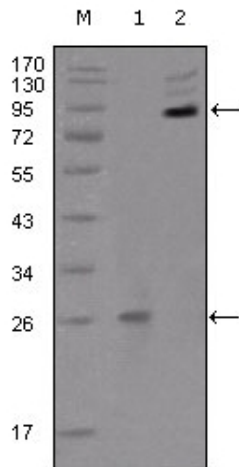
Protein Families:

Druggable Genome, Protein Kinase, Transmembrane

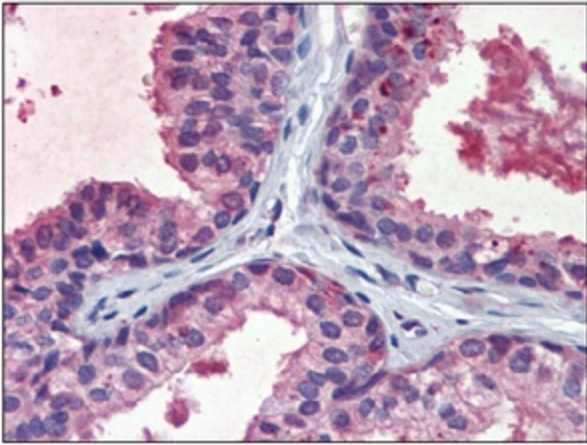
Protein Pathways:

Axon guidance

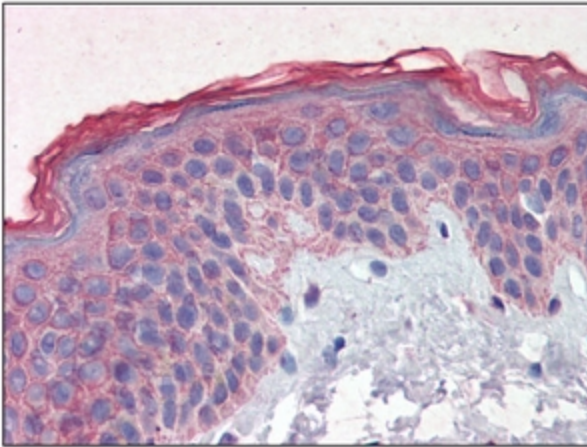
Product images:



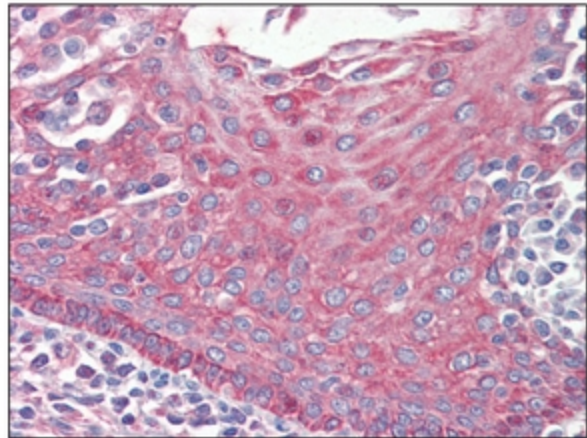
Western blot analysis using monoclonal anti-EphB2 antibody against truncated EphB2 recombinant protein (Lane 1) and extracellular EphB2 (aa19-476)-hlgGfc transfected CHO-K1 cell lysate (Lane 2).



Prostate, Human: Formalin-Fixed, Paraffin-Embedded (FFPE)



Skin, Human: Formalin-Fixed, Paraffin-Embedded (FFPE)



Tonsil, Human: Formalin-Fixed, Paraffin-Embedded (FFPE)