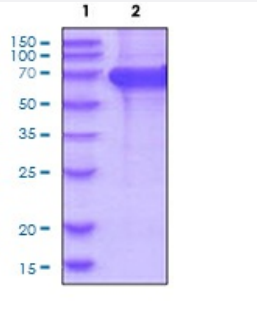
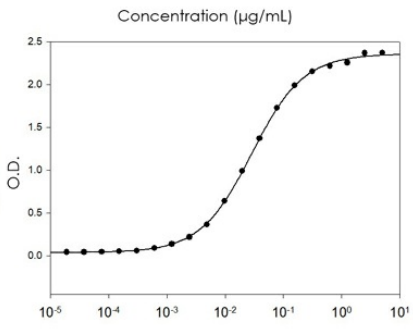
Bioactive

EPHB2 (Human) Recombinant Protein

Catalog # P7997 Size 100 ug

Applications





Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human EPHB2 (P29323, 19 a.a. - 543 a.a.) partial length recombinant protein with His tag expressed in Baculovirus expression system.

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Sequence	VEETLMDSTTATAELGWMVHPPSGWEEVSGYDENMNTIRTYQVCNVFESSQNNWLRTKFIRRRG AHRIHVEMKFSVRDCSSIPSVPGSCKETFNLYYYEADFDSATKTFPNWMENPWVKVDTIAADESF SQVDLGGRVMKINTEVRSFGPVSRSGFYLAFQDYGGCMSLIAVRVFYRKCPRIIQNGAIFQETLSG AESTSLVAARGSCIANAEEVDVPIKLYCNGDGEWLVPIGRCMCKAGFEAVENGTVCRGCPSGTF KANQGDEACTHCPINSRTTSEGATNCVCRNGYYRADLDPLDMPCTTIPSAPQAVISSVNETSLML EWTPPRDSGGREDLVYNIICKSCGSGRGACTRCGDNVQYAPRQLGLTEPRIYISDLLAHTQYTFEIQ AVNGVTDQSPFSPQFASVNITTNQAAPSAVSIMHQVSRTVDSITLSWSQPDQPNGVILDYELQYYE KELSEYNATAIKSPTNTVTVQGLKAGAIYVFQVRARTVAGYGRYSGKMYFQTMTEAEYQTSIQEKLP L
Host	Viruses
Theoretical MW (kDa)	59.1
Form	Liquid
Preparation Method	Baculovirus expression system
Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	Measured by the binding ability in a functional ELISA with Human Ephrin-B1.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In Phosphate-Buffer Saline pH 7.4 (20% glycerol, 1 mM DTT)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — EPHB2

Entrez GeneID	2048
Protein Accession#	P29323

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Gene Name	EPHB2
Gene Alias	CAPB, DRT, EPHT3, ERK, Hek5, MGC87492, PCBC, Tyro5
Gene Description	EPH receptor B2
Omim ID	600997 603688
Gene Ontology	Hyperlink
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
Other Designations	OTTHUMP00000002914|OTTHUMP00000002916|developmentally-regulated eph-related tyrosine kinase|elk-related tyrosine kinase|eph tyrosine kinase 3|ephrin receptor EphB2|prostate cancer-brain cancer susceptibility

Pathway

- Axon guidance

Disease

- Adenomatous Polyposis Coli
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Colon cancer
- Colorectal Neoplasms
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease

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- Intestinal Polyposis
- Parkinson disease
- Precancerous Conditions
- Prostate cancer
- Prostatic Neoplasms

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