

## Product datasheet for **AP05061PU-N**

### Eph receptor B1 (EPHB1) (SAM Region) Sheep Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IP
Recommended Dilution:	Western Blot: 1 - 10 µg/ml. Immunoprecipitation: 10 - 20 µg/ml.
Reactivity:	Human
Host:	Sheep
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A GST fusion protein ephB1 (Elk receptor) -SAM corresponding to amino
Specificity:	This antibody reacts to ephB1 (Elk receptor) - SAM.
Formulation:	Phosphate buffered saline with 0.08% sodium azide State: Purified State: Liquid purified Ig (0.2 µm sterile filtered)
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch
Gene Name:	EPH receptor B1
Database Link:	<a href="#">Entrez Gene 2047 Human P54762</a>



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<b>Background:</b>	The immunogen used for the anti-human ephB1 (Elk receptor) -SAM region was a GST fusion protein ephB1 (Elk receptor) -SAM corresponding to amino acid sequence 883 - 984 of the C terminus region and having a molecular weight of 116 kD. ephB1, previously known as Elk (eph-like kinase), is a receptor tyrosine kinase of the highly tissue restricted family of eph proteins. EphB1 and other ephB family members are type 1 membrane spanning proteins, comprised of immunoglobulin, fibronectin type III, and cysteine rich subdomains in the ecto domain, and the single uninterrupted cytoplasmic tyrosine kinase domain upstream of a carboxyterminal sterile alpha motif (SAM) domain. ephB family proteins bind ephrins of the B class, ligands that are also transmembrane spanning proteins capable of transmitting signals. ephB1 is expressed predominantly in developing neural structures in embryos, and in vascular epithelium of kidney, and other tissues. Upon binding to alternatively oligomerized ephrin B1, ephB1 signals regulation of cell attachment and cellcell assembly. Members of this protein family are implicated in neuronal and vascular cell targeting.
<b>Synonyms:</b>	EPHT2, NET, HEK6, ELK, EPH2, Ephrin type-B receptor 1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Axon guidance