

Product datasheet for **AP20527PU-S**

Ephrin A5 (EFNA5) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Ephrin-A5 protein. (region surrounding Pro63)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store 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.
Predicted Protein Size:	~ 25 kDa
Gene Name:	ephrin A5
Database Link:	<u>Entrez Gene 13640 Mouse</u> <u>Entrez Gene 116683 Rat</u> <u>Entrez Gene 1946 Human</u> <u>P52803</u>



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Background:

Ephrin A5, a member of the ephrin family, prevents axon bundling in cocultures of cortical neurons with astrocytes, a model of late stage nervous system development and differentiation. The EPH and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, particularly in the nervous system. EPH receptors typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin ligands and receptors have been named by the Eph Nomenclature Committee (1997). 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 similarly divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands.

Synonyms:

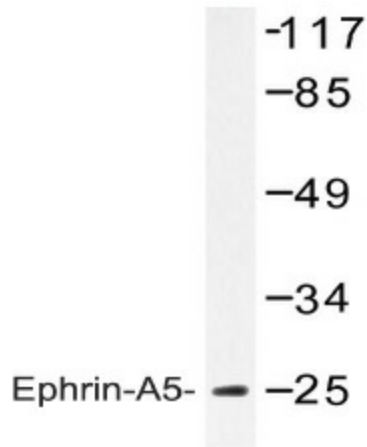
EFNA5, LERK-7, EPLG7, LERK7, AL-1, EPL7

Protein Families:

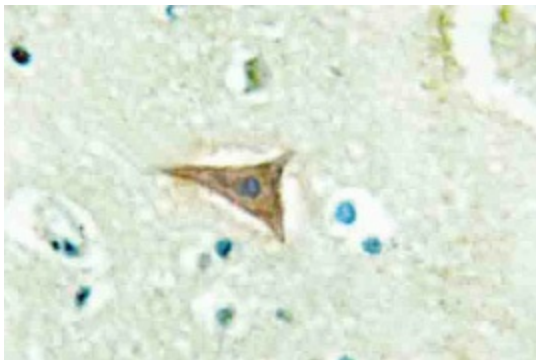
Druggable Genome

Protein Pathways:

Axon guidance

Product images:


Western blot analysis of Ephrin-A5 antibody (Cat.-No [AP20527PU-N]) in extracts from HeLa cells.



Immunohistochemistry analyzes of Ephrin-A5 antibody (Cat.-No [AP20527PU-N]) in paraffin-embedded human brain tissue.