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Rabbit Anti-Ephrin A5 antibody

SL6048R

Product Name	Ephrin A5
Chinese Name	酪氨酸蛋白激酶 A5 受体抗体
Alias	EPLG7; AL 1; EFNA5; EFL5; EPH related receptor tyrosine kinase ligand 7; LERK7; RAGS; AF1; AL-1; Efna5; EFNA5_HUMAN; EPH-related receptor tyrosine kinase ligand 7; Ephrin A5; Ephrin-A5; EPLG7; GLC1M; LERK-7.
Research Area	immunology Neurobiology Signal transduction Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Dog,Pig,Cow,Horse)
Applications	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	24kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Ephrin A5: 121-228/228
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	May function actively to stimulate axon fasciculation. Induces compartmentalized signaling within a caveolae-like membrane microdomain

when bound to the extracellular domain of its cognate receptor. This signaling event requires the activity of the Fyn tyrosine kinase.

Function:
Cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Induces compartmentalized signaling within a caveolae-like membrane microdomain when bound to the extracellular domain of its cognate receptor. This signaling event requires the activity of the Fyn tyrosine kinase. Activates the EPHA3 receptor to regulate cell-cell adhesion and cytoskeletal organization. With the receptor EPHA2 may regulate lens fiber cells shape and interactions and be important for lens transparency maintenance. May function actively to stimulate axon fasciculation. The interaction of EFNA5 with EPHA5 also mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion. Cognate/functional ligand for EPHA7, their interaction regulates brain development modulating cell-cell adhesion and repulsion.

Subunit:
Binds to EPHB2. Interacts with EPHA8; activates EPHA8 (By similarity). Binds to the receptor tyrosine kinases EPHA2, EPHA3 and EPHB1. Forms a ternary EFNA5-EPHA3-ADAM10 complex mediating EFNA5 extracellular domain shedding by ADAM10 which regulates the EFNA5-EPHA3 complex internalization and function.

Subcellular Location:
Cell membrane; Lipid-anchor, GPI-anchor. Membrane, caveola; Lipid-anchor, GPI-anchor.

Similarity:
Belongs to the ephrin family.
Contains 1 ephrin RBD (ephrin receptor-binding) domain.

SWISS:
P52803

Gene ID:
1946

Database links:

Entrez Gene: 1946 Human

Entrez Gene: 13640 Mouse

Entrez Gene: 116683 Rat

Omim: 601535 Human

SwissProt: P52803 Human

SwissProt: O08543 Mouse

SwissProt: P97605 Rat

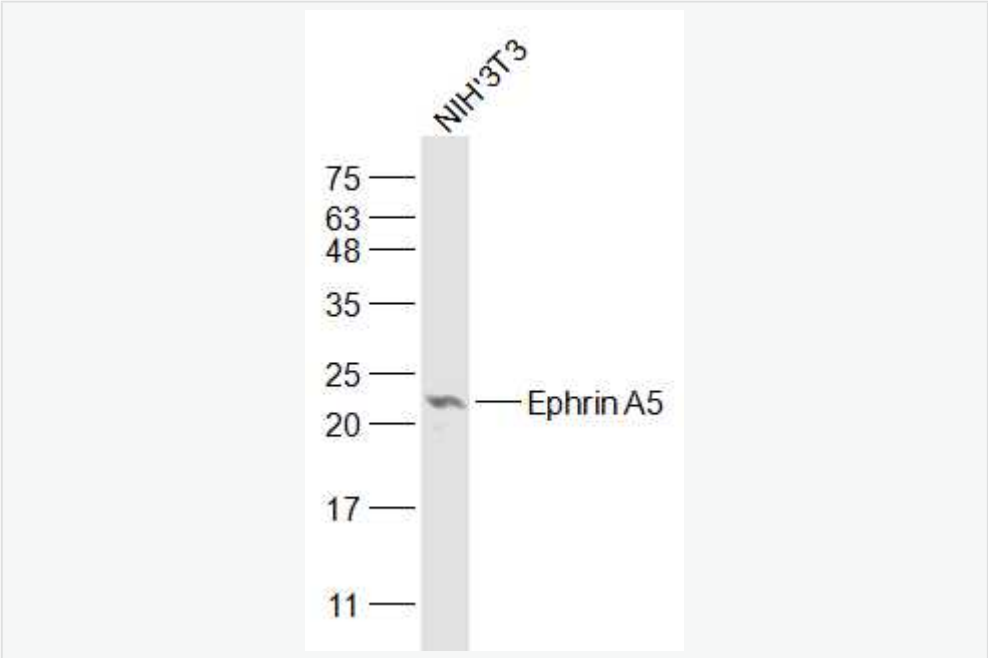
Unigene: 288741 Human

Unigene: 401670 Mouse

Unigene: 7978 Mouse

Unigene: 10714 Rat

Product Picture



Sample:

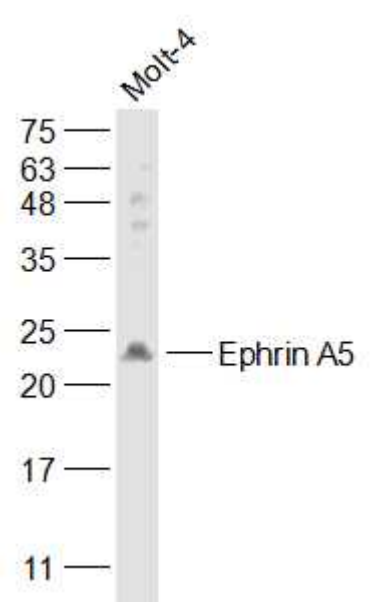
NIH/3T3(Mouse) Cell Lysate at 30 ug

Primary: Anti-Ephrin A5 (SL6048R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kD

Observed band size: 23 kD



Sample:

MOLT-4(Human) Cell Lysate at 30 ug

Primary: Anti-Ephrin A5 (SL6048R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kD

Observed band size: 23 kD