



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; Efn5; EFNA5_HUMAN; EPH-related receptor tyrosine kinase ligand 7; Ephrin A5; Ephrin-A5; EPLG7; GLC1M; LERK-7.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	24kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or 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
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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

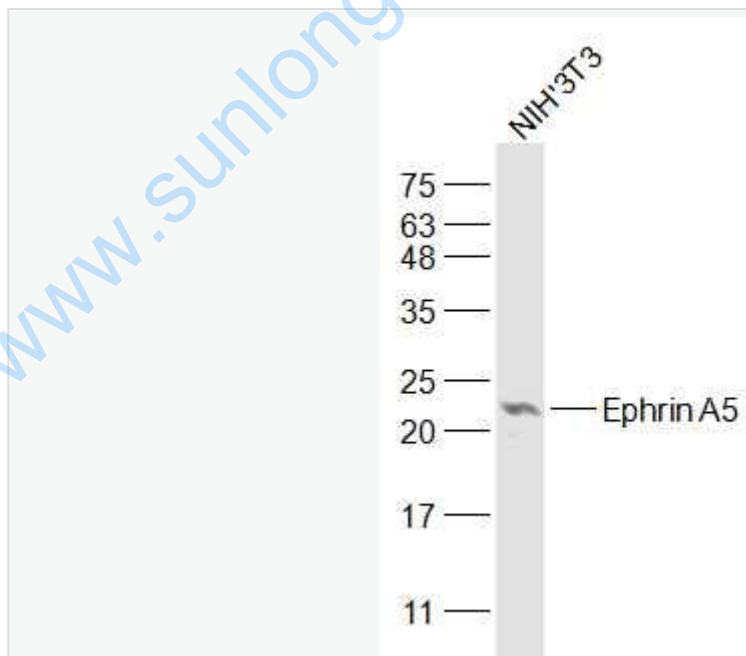
[Entrez Gene: 116683](#)Rat

[Omim: 601535](#)Human
[SwissProt: P52803](#)Human
[SwissProt: O08543](#)Mouse
[SwissProt: P97605](#)Rat
[Unigene: 288741](#)Human
[Unigene: 401670](#)Mouse
[Unigene: 7978](#)Mouse
[Unigene: 10714](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

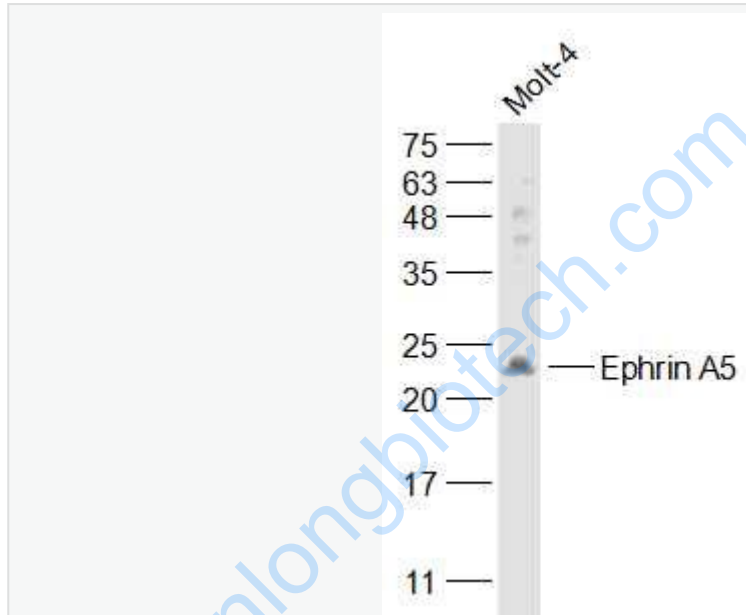
NIH/3T3(Mouse) Cell Lysate at 30 ug

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