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Rabbit Anti-phospho-Ephexin-1 (Tyr179) antibody

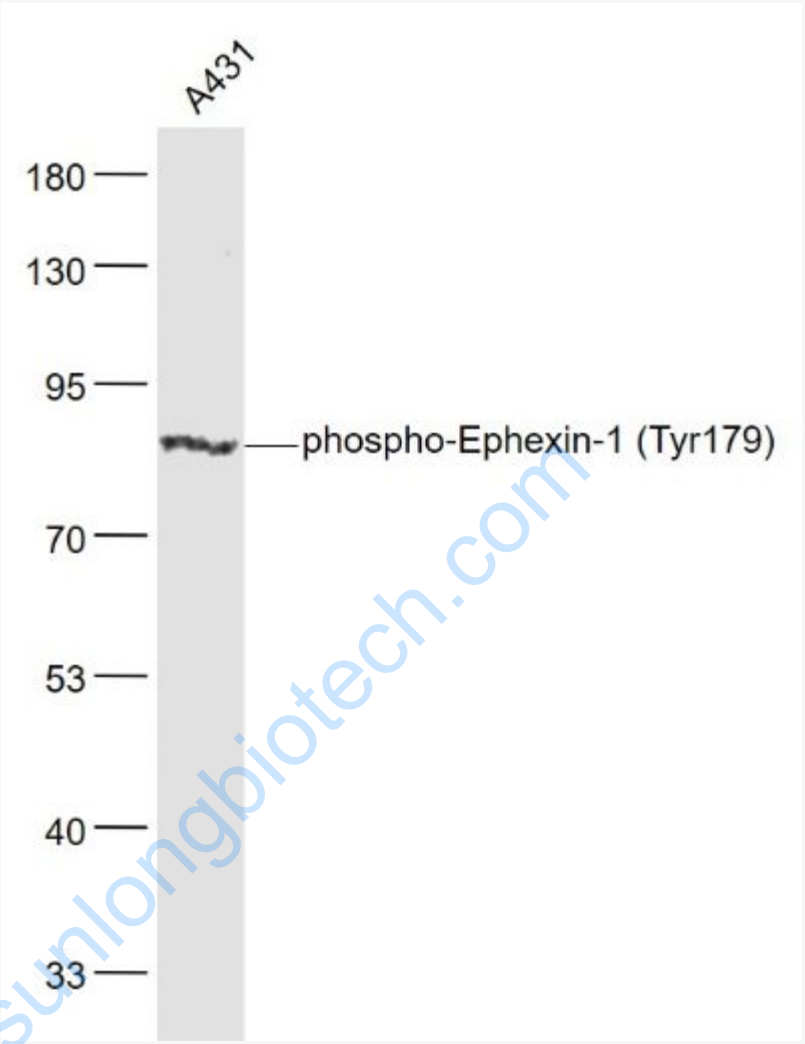
SL13084R

Product Name:	phospho-Ephexin-1 (Tyr179)
Chinese Name:	磷酸化神经细胞鸟苷酸置换因子Ephexin1抗体
Alias:	Ephexin-1 (phospho Y179); p-Ephexin-1 (phospho Y179); ARHGEF27; Eph-interacting exchange protein; EPHEXIN; Ephexin 1; Neuronal guanine nucleotide exchange factor; Ngef; NGEF_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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:	82kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human Ephexin-1 around the phosphorylation site of Tyr179:LL(p-Y)QE
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:	EPHEXIN is a 710 amino acid protein that localizes to both the membrane and the cytoplasm and contains one SH3 domain, one PH domain and one DH domain. Expressed at high levels in brain and present at lower levels in lung tissue, EPHEXIN

	interacts with EphA4 and functions as a guanine nucleotide exchange factor (GEF) that is capable of activating Rho A, Rac 1 and Cdc42 and is thought to play a role in axon guidance and growth cone collapse. EPHEXIN is subject to Src-dependent phosphorylation, an event that increases the GEF activity of EPHEXIN toward Rho A. Human EPHEXIN, which exists as multiple alternatively spliced isoforms, shares a high degree of sequence homology with its mouse counterpart, suggesting a conserved role between species. **Function:** Acts as a guanine nucleotide exchange factor (GEF) which differentially activates the GTPases RHOA, RAC1 and CDC42. Plays a role in axon guidance regulating ephrin-induced growth cone collapse. Upon activation by ephrin through EPHA4, the GEF activity switches toward RHOA resulting in its activation. Activated RHOA promotes cone retraction at the expense of RAC1-and CDC42-stimulated growth cone extension. **Subunit:** Interacts with CDK5R1 and EPHA4; activated by EPHA4 through the CDK5 kinase. **Subcellular Location:** Cytoplasm. Membrane. Cell projection, growth cone. Associated with membranes. Localizes to axonal growth cones. **Tissue Specificity:** Highly expressed in brain specifically in caudate nucleus and to a lower extent in amygdala and hippocampus. Also detected in lung. **Post-translational modifications:** Src-dependent phosphorylation at Tyr-179 upon EPHA4 activation increases the guanine exchange factor activity toward RHOA. **Similarity:** Contains 1 DH (DBL-homology) domain. Contains 1 PH domain. Contains 1 SH3 domain. Database links : UniProtKB/Swiss-Prot: Q8N5V2.2 **SWISS:** Q8N5V2 **Gene ID:** 25791 **Database links:** Entrez Gene: 25791 Human

	Entrez Gene: 53972 Mouse Entrez Gene: 246217 Rat Entrez Gene: 424744 Chicken Omim: 605991 Human SwissProt: Q8N5V2 Human SwissProt: Q8CHT1 Mouse SwissProt: Q5BKC9 Rat Unigene: 97316 Human Unigene: 435439 Mouse Unigene: 20670 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

A431 (Human) Cell Lysate at 30 ug

Primary: Anti- phospho-Ephexin-1 (Tyr179) (SL13084R) at 1/1000 dilution

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

Predicted band size: 82 kD

Observed band size: 82 kD