SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Centaurin alpha 1 antibody

Catalog Number: SL11543R

FOR RESEARCH USE ONLY

[DATASHEET]

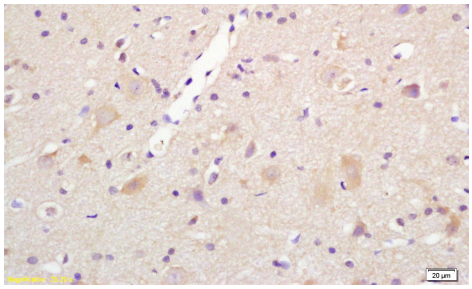
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Centaurin alpha 1
Immunogen:	KLH conjugated synthetic peptide derived from human Centaurin alpha 1: 101-200/374
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat, (predicted: Human, Mouse, Dog, Pig, Cow, Horse, Sheep)
Predicted MW.:	43kDa
Subcellular Location:	The nucleus cytoplasmic The cell membrane
Background:	ADP-ribosylation factor (ARF) family of small GTP-binding proteins are involved in vesicular transport regulation and in controlling cytoskeletal organization and cell adhesion. These proteins are best characterized as regulators of membrane traffic. The Centaurin GTPase-activating protein family comprise a subset of ARF regulatory molecules that transduce PI 3-kinase activation into coordinated control of Arf-dependent pathways. This family includes ASAP1, ACAP1, ACAP2, AGAP1, ARAP1, ARAP2, Centaurin a1 and Centaurin g3. The Centaurin a1 protein is a high affinity PtdIns(3,4,5)P3 binding protein enriched in brain. By acting as a GTPase activating protein for ADP ribosylation factor 6 (ARF6), Centaurin a1 is able to switch off ARF6 and inhibit its ability to mediate b2-adrenoceptor internalization and negatively regulate ARF6 activity by functioning as an in

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	vivo PIP3 dependent ARF6 GAP. **Function:** The centaurin alpha 1 protein is a high affinity PtdIns(3,4,5)P3 binding protein enriched in brain. By acting as a GTPase activating protein for ADP ribosylation factor 6 (ARF6), centaurin alpha 1 is able to switch off ARF6 and inhibit its ability to mediate beta 2 adrenoceptor internalization and negatively regulates ARF6 activity by functioning as an in vivo PIP3 dependent ARF6 GAP. **Subunit:** Interacts with PRKCA, PRKCI and PRKCZ. Interacts with the N-terminal region of PRKD1. **Subcellular Location:** Cellular localizationCytoplasmic, Nuclear and Plasma membrane **Tissue Specificity:** Expressed at highest levels in brain and at lower levels in peripheral blood leukocytes. **Post-translational modifications:** Phosphorylated by PRKCA, PRKCI, PRKCZ and PRKD1 in vitro. **Similarity:** Contains 1 Arf-GAP domain. Contains 2 PH domains. **Database links:** **Entrez Gene:** 11033 Human **Entrez Gene:** 231821 Mouse **Entrez Gene:** 397453 Pig **Entrez Gene:** 171097 Rat Omim: 608114 Human **SwissProt:** O75689 Human **Unigene:** 297819 Mouse **Unigene:** 10539 Rat

[VALIDATION IMAGES]



Tissue/cell: Rat brain ; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

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Incubation: Anti-Centaurin alpha 1 Polyclonal Antibody, Unconjugated(SL11543R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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