SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Oligophrenin 1 antibody

Catalog Number: SL11469R

FOR RESEARCH USE ONLY

[DATASHEET]

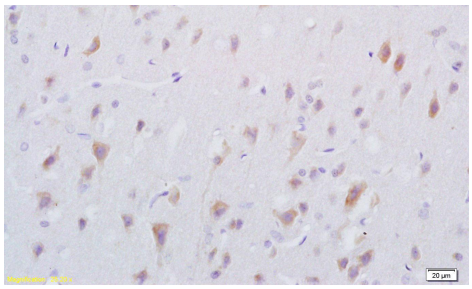
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Oligophrenin 1
Immunogen:	KLH conjugated synthetic peptide derived from human Oligophrenin 1: 418-465/802
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. 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, Cow, Horse, Sheep)
Predicted MW.:	92kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	Ras p21 can exist in either a physiologically quiescent GDP-binding state or a GTP-binding signal-emitting state (1,2). Interaction of Ras p21 with GTPase activating protein (GAP) can increase the rate of hydrolysis of Ras p21-bound GTP by as much as 1000-fold (3). In mitogenically activated and tyrosine kinase-transformed cells, Ras GAP forms a complex with a protein designated p190 (4). At its amino terminus, p190 contains sequence motifs characteristic of all known GTPases, whereas the carboxy terminus contains sequences similar to those found in the Bcr gene product, n-chimerin and Rho GAP, all of which exhibit intrinsic GAP activity (4,5). Oligophrenein-1 is an additional protein with GTPase activating activity. Oligophrenein-1 is a RhoGAP protein that stimulates GTP hydrolysis of Rho subfamily members and is involved in cell migration, morphogenesis and axon outgrowth (6).

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

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	Function: Stimulates GTP hydrolysis of members of the Rho family. Could activates GTPase targets that are known to affect cell migration and outgrowth of axons and dendrites. **Subunit:** Interacts with HOMER1. Interacts with AMPA receptor complexes. Interacts with SH3GL2 (endophilin-A1) **Subcellular Location:** Cell junction, synapse. Cell projection, axon. Cell projection, dendritic spine. Note=Present in both presynaptic and postsynaptic sites **Tissue Specificity:** Expressed in brain. DISEASE: Defects in OPHN1 are the cause of mental retardation X-linked OPHN1-related (MRXSO) [MIM:300486]; formerly designated MRX60. MRXSO is a syndromic mental retardation. Patients present mental retardation associated with cerebellar hypoplasia and distinctive facial dysmorphism. **Similarity:** Contains 1 PH domain. Contains 1 Rho-GAP domain. **Database links:** **Entrez Gene:** 4983 Human Omim: 300127 Human **SwissProt:** O60890 Human

[VALIDATION IMAGES]



Tissue/cell: rat brain tissue; 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;
Incubation: Anti-Oligophrenin 1 Polyclonal Antibody, Unconjugated(SL11469R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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