SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Advillin antibody

Catalog Number: SL11451R

FOR RESEARCH USE ONLY

[DATASHEET]

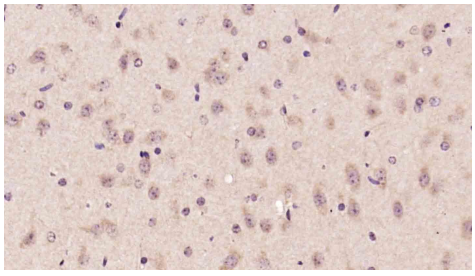
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Advillin
Immunogen:	KLH conjugated synthetic peptide derived from human Advillin: 151-250/819
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 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:	Mouse, (predicted: Human, Rat, Dog, Pig, Cow, Horse, Rabbit)
Predicted MW.:	90kDa
Subcellular Location:	cytoplasmic
Background:	Advillin is an 819 amino acid protein that localizes to both the cytoplasm and the cytoskeleton and contains one HP domain and six gelsolin-like repeats. Expressed at high levels in colon and small intestine and at lower levels in uterus, thymus, testis and prostate, advillin functions as a calcium-regulated Actin-binding protein that may be involved in the development of neuronal cells, specifically those that form ganglia. The gene encoding advillin maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders. **Function:** Ca(2+)-regulated actin-binding protein. May have a unique function in the morphogenesis of neuronal cells which form ganglia. Required for

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	SREC1-mediated regulation of neurite-like outgrowth. Plays a role in regenerative sensory axon outgrowth and remodeling processes after peripheral injury in neonates. Involved in the formation of long fine actin-containing filopodia-like structures in fibroblast. Plays a role in ciliogenesis. **Subunit:** Associates (via C-terminus) with actin. Interacts with SCARF1 (By similarity). Interacts with F-actin. **Subcellular Location:** Cytoplasm > cytoskeleton. Cell projection. Cell projection > axon. **Tissue Specificity:** Most highly expressed in the small intestine and colonic lining. Weaker expression also detected in the thymus, prostate, testes and uterus. **Similarity:** Belongs to the villin/gelsolin family. Contains 6 gelsolin-like repeats. Contains 1 HP (headpiece) domain. **Database links:** **Entrez Gene:** 10677 Human **Entrez Gene:** 11567 Mouse **Entrez Gene:** 79253 Rat Omim: 613397 Human **SwissProt:** O75366 Human **SwissProt:** O88398 Mouse **SwissProt:** Q9WU06 Rat **Unigene:** 584854 Human **Unigene:** 10739 Mouse **Unigene:** 20161 Rat

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Advillin) Polyclonal Antibody, Unconjugated (SL11451R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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