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Striatin 4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54741

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9NRL3
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80596
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Striatin 4/zinedin
Epitope Specificity	85-190/753
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Membrane.
SIMILARITY	Belongs to the WD repeat striatin family. Contains 7 WD repeats.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Striatin, SG2NA, and zinedin, the three mammalian members of the striatin family, are multimodular, WD-repeat and calmodulin-binding proteins. Zinedin and SG2NA share with striatin identical protein-protein interaction domains and the same overall domain structure. All three proteins are both cytosolic and membrane-bound and bind calmodulin in the presence of calcium. Striatin is a neuronal, intracellular protein strictly expressed in the somatodendritic compartment, including spines, subsets of neurons, and is considered as a marker of neuronal polarity. Downregulation of striatin, which is expressed in a few subsets of neurons, impairs the growth of dendrites as well as rat locomotor activity. Zinedin is mainly expressed in the central nervous system, whereas SG2NA is mainly expressed in the brain and muscle.

Additional Information

Gene ID	29888
Other Names	Striatin-4, Zinedin, STRN4, ZIN
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	STRN4 (HGNC:15721)
Synonyms	ZIN
Function	Calmodulin-binding scaffolding protein which is the center of the striatin-interacting phosphatase and kinase (STRIPAK) complexes (PubMed:18782753, PubMed:32640226). STRIPAK complexes have critical roles in protein (de)phosphorylation and are regulators of multiple signaling pathways including Hippo, MAPK, nuclear receptor and cytoskeleton remodeling (PubMed:32640226). Different types of STRIPAK complexes are involved in a variety of biological processes such as cell growth, differentiation, apoptosis, metabolism and immune regulation (Probable). Key regulator of the expanded Hippo signaling pathway by interacting and allowing the inhibition of MAP4K kinases by the STRIPAK complex (PubMed:32640226).
Cellular Location	Cytoplasm.