

Striatin 4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54741

Specification

Striatin 4 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession <u>Q9NRL3</u>

Reactivity
Host
Clonality
Calculated MW
Physical State

Rat, Pig, Dog, Bovine
Rabbit
Polyclonal
80 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human Striatin 4/zinedin

Epitope Specificity 85-190/753

Isotype
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.

Striatin 4 Polyclonal Antibody - Additional Information

Gene ID 29888

Other Names

Striatin-4, Zinedin, STRN4, ZIN

Dilution

IHC-P~~N/A<br \><span class</pre>

="dilution_IHC-F">IHC-F~~N/A<br \><span class



="dilution IF">IF \sim 1:50 \sim 200
span class ="dilution ICC">ICC \sim N/A
br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

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.

Striatin 4 Polyclonal Antibody - 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.

Striatin 4 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Striatin 4 Polyclonal Antibody - Images