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SYAP1 Rabbit pAb

Catalog # AP98297

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96A49
Other Accession	Q96A49
Reactivity	Rat, Human
Predicted	Pig, Mouse, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39933
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SAP-1
Epitope Specificity	151-230/352
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 BSD domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SYAP1 (synapse-associated protein 1) is a 352 amino acid protein that is ubiquitously expressed in adult tissues. SYAP1 contains one BSD domain which is a novel domain that is present in basal transcription factors, synapse-associated proteins and several hypothetical proteins. The BSD domain is characterized by three predicted alpha helices and by conserved tryptophan and phenylalanine residues, located at the C-terminus of the domain. The gene that encodes SYAP1 in humans is located on chromosome X. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes. Color blindness, hemophilia, and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more frequently as males carry a single X chromosome.

Additional Information

Gene ID	94056
Other Names	BSTA; PRO3113; 2010110O17Rik; SYAP1_HUMAN; SYAP1; BSD domain-containing signal transducer and Akt interactor protein (BSTA); SYAP1_MOUSE; synapse associated protein 1; SAP47 homolog (Drosophila)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 □g/Test
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	SYAP1 (HGNC:16273)
Function	Plays a role in adipocyte differentiation by promoting mTORC2-mediated phosphorylation of AKT1 at 'Ser-473' after growth factor stimulation (PubMed:23300339).
Cellular Location	Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q9D5V6}. Golgi apparatus {ECO:0000250|UniProtKB:Q9D5V6}. Perikaryon {ECO:0000250|UniProtKB:Q9D5V6}. Cell projection, axon {ECO:0000250|UniProtKB:Q9D5V6}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q9D5V6}. Cell projection, growth cone {ECO:0000250|UniProtKB:Q9D5V6}. Presynaptic cell membrane {ECO:0000250|UniProtKB:Q9D5V6}. Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q9D5V6}. Membrane Note=Localizes to cholinergic neuromuscular junctions and in actin-rich growth cone regions (By similarity). Membrane-associated in a epidermal growth factor (EGF)-dependent manner (PubMed:23300339) {ECO:0000250|UniProtKB:Q9D5V6, ECO:0000269|PubMed:23300339}
Tissue Location	Expressed in heart, placenta, lung, liver, skeletal muscle, kidney and pancreas (PubMed:23300339)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.