

# SYAP1 Rabbit pAb

Catalog # AP98297

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Primary Accession</b>       | <a href="#">Q96A49</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Other Accession</b>         | <a href="#">Q96A49</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Calculated MW</b>           | 39933                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human SAP-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Epitope Specificity</b>     | 151-230/352                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>SIMILARITY</b>              | Contains 1 BSD domain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Background Descriptions</b> | 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

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| <b>Gene ID</b>     | 94056                                                                                                                                                                                              |
| <b>Other Names</b> | 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) |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 µg/Test                                                                                                                                    |
| <b>Storage</b>     | 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

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| <b>Name</b>              | SYAP1 ( <a href="#">HGNC:16273</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Function</b>          | Plays a role in adipocyte differentiation by promoting mTORC2-mediated phosphorylation of AKT1 at 'Ser-473' after growth factor stimulation (PubMed: <a href="#">23300339</a> ).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cellular Location</b> | 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} |
| <b>Tissue Location</b>   | 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'.