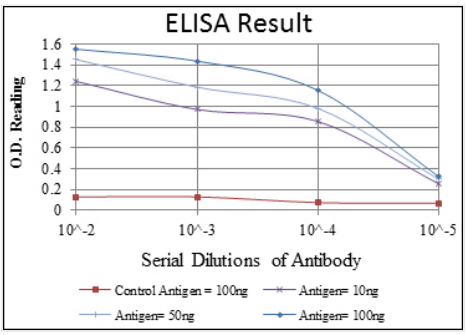
SAPAP1 Antibody – Mouse Monoclonal

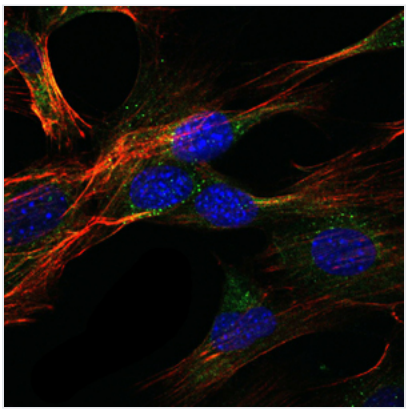
PRODUCT OVERVIEW

Product Name	SAPAP1, Monoclonal Antibody
Full Product Name	SAPAP1 Monoclonal Antibody
Product Gene Name	anti-SAPAP1 antibody
Product Synonym Names	Disks large-associated protein 1; DLGAP1; DAP1; GKAP; Disks large-associated protein 1; DAP-1; Guanylate kinase-associated protein; hGKAP; PSD-95/SAP90-binding protein 1; SAP90/PSD-95-associated protein 1; SAPAP1
Clonality	Monoclonal
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	Affinity purification
Specificity	SAPAP1 Monoclonal Antibody detects endogenous levels of SAPAP1 protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	108,873 Da
Chromosome Location	Chromosome: 18; NC_000018.9 (3496030..4455266, complement). Location: 18p11.31
OMIM	605445
3D Structure	ModBase 3D Structure for O14490
Immunogen	Purified recombinant fragment of human SAPAP1 expressed in E coli.
Modification	Unmodified/Total
Function	Part of the postsynaptic scaffold in neuronal cells. Belongs to the SAPAP family.
Subcellular Location	Found in postsynaptic density of neuronal cells.
Subunit	Interacts with guanylate kinase-like domain of DLG1, DLG2, DLG3, DLG4 and AIP1. Interacts with the PDZ domain of SHANK1, SHANK2 and SHANK3. Found in a complex with DLG4 and SHANK1, SHANK2 or SHANK3. Found in a complex with DLG4 and BEGAIN. Interacts with DYL2 and LRFN1.
Tissue Specificity	Expressed in brain.
Product Categories/Family for anti-SAPAP1 antibody	Primary Antibodies
Applications Tested/Suitable for anti-SAPAP1 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-SAPAP1 antibody	WB: 1:500-1:2000 IHC: 1:200-1:1000 IF: 1:200-1:1000 ELISA: 1:10000
Related Product Information for anti-SAPAP1 antibody	MBS9525087 is an antibody targeting SAPAP1. Also known as SAPAP1 Monoclonal Antibody. Reactive in Human. Host: Mouse.

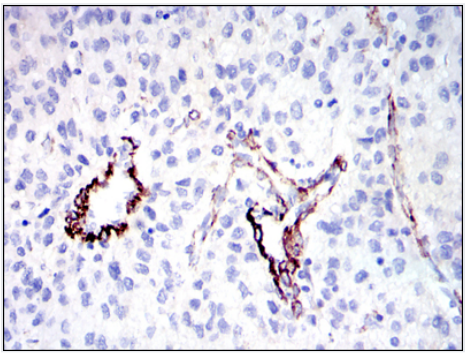
Other Notes	Small volumes of anti-SAPAP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



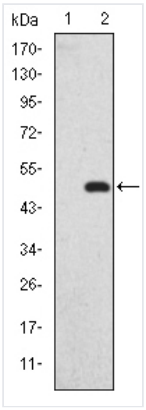
Western Blot (WB) of anti-SAPAP1 antibody
Western Blot analysis using SAPAP1 Monoclonal Antibody against HEK293 (1) and GKAP-hIgGFc transfected HEK293 (2) cell lysate.



Immunohistochemistry (IHC) of anti-SAPAP1 antibody
Immunohistochemistry analysis of paraffin-embedded human liver cancer tissues with DAB staining using SAPAP1 Monoclonal Antibody.



Immunofluorescence (IF) of anti-SAPAP1 antibody
Immunofluorescence analysis of NIH/3T3 cells using SAPAP1 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Testing Data of anti-SAPAP1 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SAPAP1. It may not necessarily be applicable to this product.

NCBI GI #	51339031
NCBI GeneID	9229
NCBI Accession #	NP_001003809.1
UniProt Primary Accession #	O14490
UniProt Secondary Accession #	O14489; P78335; A8MWN8; B2RMU8; B7WPA1; B7Z2H2; B7Z2I2; B7Z9Y4
UniProt Related Accession #	O14490
GenBank Nucleotide #	NM_001003809.2
NCBI Official Full Name	disks large-associated protein 1 isoform 2
NCBI Official Synonym Full Names	discs, large (Drosophila) homolog-associated protein 1
NCBI Official Symbol	DLGAP1
NCBI Official Synonym Symbols	GKAP; DAP-1; hGKAP; SAPAP1; DAP-1-BETA; DAP-1-ALPHA
UniProt Protein Name	Disks large-associated protein 1

UniProt Synonym Protein Names	Guanylate kinase-associated protein; hGKAP; PSD-95/SAP90-binding protein 1; SAP90/PSD-95-associated protein 1
UniProt Gene Name	DLGAP1
UniProt Synonym Gene Names	DAP1; GKAP; DAP-1; hGKAP; SAPAP1
UniProt Entry Name	DLGP1_HUMAN
NCBI Protein Information	disks large-associated protein 1; PSD-95/SAP90 binding protein 1; SAP90/PSD-95-associated protein 1; guanylate kinase-associated protein
UniProt Comments for SAPAP1	SAPAP1: Part of the postsynaptic scaffold in neuronal cells. Belongs to the SAPAP family. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 18p11.31 Cellular Component: postsynaptic membrane; cell junction Molecular Function: protein binding Biological Process: synaptic transmission
Research Articles on SAPAP1	**1.** The GKAP controls the forces operating on microtubules and play a fundamental role in centrosome positioning and cell polarity.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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