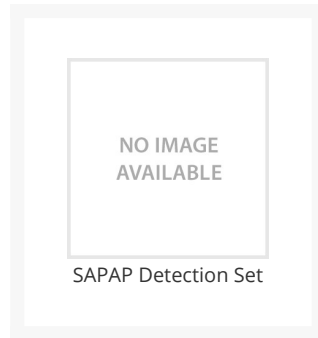




SAPAP Detection Set

Cat. No.: PSI-1826



Ψ Specifications

SPECIES REACTIVITY:	Human
IMMUNOGEN:	Rabbit polyclonal antibodies were raised against peptides corresponding to amino acid sequences from each of the corresponding proteins.
TESTED APPLICATIONS:	IF, IHC, WB
APPLICATIONS:	These polyclonal antibodies can be used for detection of SAPAP1 - 4 by immunoblot at 0.5 - 2 µg/mL, and for detection of SAPAP1 - 3 by immunohistochemistry at 2.5 - 5 µg/mL, and Immunofluorescence.
POSITIVE CONTROL:	1) SAPAP1 Antibody: Rat Brain Tissue Lysate, Catalog No. 1463 SAPAP2 Antibody: L1210 Cell Lysate, Catalog No. 1284 SAPAP3 Antibody: Rat Brain Tissue Lysate, Catalog No. 1463 SAPAP4 Antibody: L1210 Cell Lysate, Catalog No. 1220

Ψ Properties

PURIFICATION:	Antibodies are supplied as affinity chromatography purified IgG.
PHYSICAL STATE:	Liquid
BUFFER:	PBS containing 0.02% sodium azide.

CONCENTRATION:	Antibody 1 mg/mL
STORAGE CONDITIONS:	Stable at 4 °C for three months, store at -20 °C for up to one year.

Ψ Additional Info

USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
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Ψ Background and References

BACKGROUND:	<p>The members of the SAP90/PSD-95-associated protein (SAPAP) family (also known as the DLGAP family) specifically interact with PSD-95/SAP90, a membrane-associated guanylate kinase localized at postsynaptic density (PSD) in neuronal cells. The SAPAP proteins are thought to be adaptor proteins that also interact with different synaptic scaffolding proteins, cytoskeletal and signaling components, such as focal adhesion kinase (FAK) and proline-rich tyrosine kinase 2 (PYK2). SAPAP1, -2 and -4 mRNA are targeted to cell bodies, whereas SAPAP3 mRNA is detected mainly in cell bodies. SAPAP1 protein however, is targeted to the synapse and is not reliant on the synaptic localization of PSD-95 or the synaptic scaffolding molecule (S-SCAM). SAPAP3 protein is targeted to dendrites. Recent experiments have suggested that SAPAP3 may be involved in obsessive-compulsive disorder (OCD), as mice lacking SAPAP3 exhibited OCD-like symptoms which could be relieved by lentiviral-mediated selective expression of SAPAP3 in the striatum of SAPAP3-mutant mice. Multiple isoforms of the SAPAP proteins are known to exist.</p> <p>For images please see PDF data sheet</p>
REFERENCES:	<p>1) SAPAPs. A family of PSD-95/SAP90-associated proteins localized at postsynaptic density. J. Biol. Chem. 1997; 272:11943-51.</p> <p>2) Kindler S, Rehbein M, Classen B, et al. Distinct spatiotemporal expression of SAPAP transcripts in the developing rat brain: a novel dendritically localized mRNA. Brain Res. Mol. Brain Res. 2004; 126:14-21.</p> <p>3) Bongiorno-Borbone L, Kadare G, Benfenati F, et al. FAK and PYK2 interact with SAP/PSD-95-associated protein-3. Biochem. Biophys. Res. Commun. 2005; 337:641-6.</p> <p>4) Welch JM, Wang D, and Feng G. Differential mRNA expression and protein localization of the SAP90/PSD-95-associated proteins (SAPAPs) in the nervous system of the mouse. J. Comp. Neurol. 2004; 472:24-39.</p>

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