

## SAPAP2 Antibody

*SAPAP2: SAP90/PSD-95-associated protein 2, Disks large-associated protein 2, DLGAP2, DAP-2*

**CATALOG No.:4625**

### BACKGROUND:

SAP90/PSD-95-associated protein 2 (SAPAP2, also known as DLGAP2) is a member of a protein family whose members specifically interact with PSD-95/SAP90, a membrane-associated guanylate kinase localized at postsynaptic density (PSD) in neuronal cells (1,2). Like the other SAPAP proteins, SAPAP2 is thought to be an adaptor protein that also interacts with different synaptic scaffolding proteins, cytoskeletal and signaling components, such as focal adhesion kinase (FAK) and proline-rich tyrosine kinase 2 (PYK2) (3,4). SAPAP2 mRNA is targeted to cell bodies in a similar manner to SAPAP1 and -4, whereas SAPAP3 mRNA is detected mainly in cell bodies (3,5). At least three isoforms of SAPAP2 are known to exist. This SAPAP2 antibody will not cross-react with other SAPAP proteins.

### SOURCE:

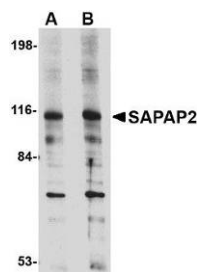
Rabbit polyclonal SAPAP2 antibody was raised against a 16 amino acid peptide from near the center of human SAPAP2 (GenBank accession no.Q9P1A6).

### APPLICATIONS:

SAPAP2 antibody can be used for detection of SAPAP2 by Western blot at 0.5 – 1 µg/ml. (Optimal dilution should be determined by user.) L1210 cell lysate can be used as positive control. SAPAP2 antibody is human, mouse and rat reactive. **For research use only.**

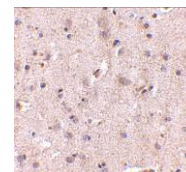
### STORAGE:

SAPAP2 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of SAPAP2 in L1210 cell lysate with SAPAP2 antibody at (A) 0.5 and (B) 1 µg/ml.

Immunohistochemistry of SAPAP2 in human brain with SAPAP2 antibody at 5 µg/ml.



### RELATED PRODUCTS:

Blocking Peptide, Catalog No. **4625P**.  
L1210 Cell Lysate, Catalog No. **1284**.  
SAPAP1 Antibody, Catalog No. **4623**.  
SAPAP3 Antibody, Catalog No. **4411**.  
SAPAP4 Antibody, Catalog No. **4633**.

### REFERENCES:

1. SAPAPs. A family of PSD-95/SAP90-associated proteins localized at postsynaptic density. *J. Biol. Chem.* 1997; 272:11943-51.
2. Ranta S, Zhang Y, Ross B, et al. Positional cloning and characterization of the human DLGAP2 gene and its exclusion in progressive epilepsy with mental retardation. *Eur. J. Hum. Genet.* 2000; 8:381-4.
3. 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.
4. 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.
5. 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. (08-01D)