

## Product datasheet for **TA306507**

### SAPAP3 (DLGAP3) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	SAPAP3 antibody was raised against a 18 amino acid peptide from near the carboxy terminus of human SAPAP3.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	DLG associated protein 3
Database Link:	<a href="#">NP_001073887</a> <a href="#">Entrez Gene 242667 Mouse</a> <a href="#">Entrez Gene 286923 Rat</a> <a href="#">Entrez Gene 58512 Human</a> <a href="#">O95886</a>



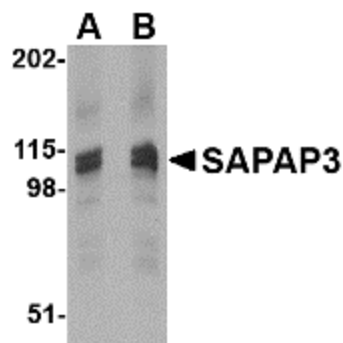
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**Background:**

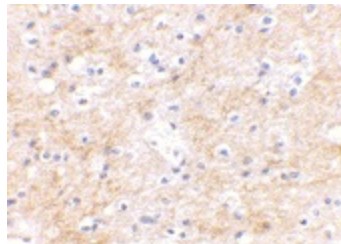
SAP90/PSD-95-associated protein 3 (SAPAP3, also known as DLGAP3) is a member of a protein family whose members specifically interact with PSD-95/SAP90, a membrane-associated guanylate kinase localized at postsynaptic density (PSD) in neuronal cells. Like the other SAPAP proteins, SAPAP3 is thought to 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). Both SAPAP3 protein and mRNA are targeted to dendrites, whereas SAPAP1, -2, and -4 mRNAs are detected mainly in cell bodies. 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. At least two isoforms are known to exist.

**Synonyms:**

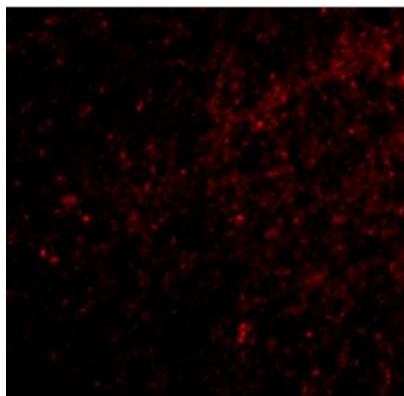
DAP3; SAPAP3

**Product images:**

Western blot analysis of SAPAP3 in rat brain tissue lysate with SAPAP3 antibody at (A) 1 (B) 2 ug/ml.



Immunohistochemical staining of human brain tissue using SAPAP3 antibody at 2.5 ug/ml.



Immunofluorescence of SAPAP3 in human brain tissue with SAPAP3 antibody at 20 ug/mL.