

## Mouse anti-Human, mouse DLG4 Monoclonal Antibody | anti-Dlg4 antibody

DLG4 Antibody (C-term) (Rat) (Ascites)

|                               |                      |                                   |                                                                  |
|-------------------------------|----------------------|-----------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA283477</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human, mouse</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA, Western Blot</b> |
|-------------------------------|----------------------|-----------------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

DLG4; Monoclonal Antibody; DLG4 Antibody (C-term) (Rat) (Ascites); Disks large homolog 4; Postsynaptic density protein 95; PSD-95; Synapse-associated protein 90; SAP-90; SAP90; Dlg4; Dlg4; Psd95; anti-Dlg4 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                   |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                             |
| Reactivity                                     | Human, mouse                                                                                                                                                      |
| Clonality                                      | Monoclonal                                                                                                                                                        |
| Isotype                                        | IgM                                                                                                                                                               |
| Clone Number                                   | 127CT15.8.20                                                                                                                                                      |
| Specificity                                    | This DLG4 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 677-706 amino acids from the C-terminal region of human DLG4. |
| Form/Format                                    | Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.                                                                                |
| Sequence Positions                             | 677-706                                                                                                                                                           |
| Sequence Length                                | 724                                                                                                                                                               |
| Applicable Applications for anti-Dlg4 antibody | IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                              |
| Antigen Type                                   | Synthetic Peptide                                                                                                                                                 |
| Antigen Source                                 | RAT                                                                                                                                                               |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.            |

### IMAGES



#### IHC (Immunohistochemistry)

RAT DLG4 Antibody (C-term)(Ascites) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RAT DLG4 Antibody (C-term)(Ascites) for immunohistochemistry. Clinical relevance has not been evaluated.



#### WB (Western Blot)

Western blot analysis of RAT DLG4 Antibody (C-term) in mouse cerebellum tissue lysates (35ug/lane).DLG4 (arrow) was detected using the purified Mab.(1:100

### ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                               |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-Dlg4 antibody | a molecular scaffolding protein that binds and clusters N-methyl-D-aspartate receptors at neuronal synapses; may be involved in guanine nucleotide-mediated signal transduction pathway [RGD] |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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| References | SAP102 is a highly mobile MAGUK in spines. Zheng CY, et al. J Neurosci, 2010 Mar 31. PMID 20357126. Synaptic clustering of PSD-95 is regulated by c-Abl through tyrosine phosphorylation. de Arce KP, et al. J Neurosci, 2010 Mar 10. PMID 20220006. Transduced PDZ1 domain of PSD-95 decreases Src phosphorylation and increases nNOS (Ser847) phosphorylation contributing to neuroprotection after cerebral ischemia. Wang WW, et al. Brain Res, 2010 Apr 30. PMID 20197063. Hidden dynamic allostery in a PDZ domain. Petit CM, et al. Proc Natl Acad Sci U S A, 2009 Oct 27. PMID 19828436. Integrin-linked kinase is involved in cocaine sensitization by regulating PSD-95 and synapsin I expression and GluR1 Ser845 phosphorylation. Chen Q, et al. J Mol Neurosci, 2010 Mar. PMID 19629758. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                     |
|----------------------------------|-------------------------------------|
| NCBI GI #                        | 9665227                             |
| NCBI GeneID                      | 29495                               |
| NCBI Accession #                 | NP_062567.1                         |
| NCBI GenBank Nucleotide #        | NM_019621.1                         |
| UniProt Accession #              | P31016; P97631                      |
| Molecular Weight                 | 80465                               |
| NCBI Official Full Name          | disks large homolog 4               |
| NCBI Official Synonym Full Names | discs, large homolog 4 (Drosophila) |
| NCBI Official Symbol             | Dlg4                                |
| NCBI Official Synonym Symbols    | Dlgh4; PSD95; Sap90                 |
| NCBI Protein Information         | disks large homolog 4               |
| UniProt Protein Name             | Disks large homolog 4               |
| UniProt Gene Name                | <b>Dlg4</b>                         |
| UniProt Synonym Gene Names       | Dlgh4; Psd95; PSD-95; SAP-90; SAP90 |
| UniProt Entry Name               | DLG4_RAT                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.