



Rabbit Anti-MPP3/SAP102 antibody

SL11315R

Product Name:	MPP3/SAP102
Chinese Name:	突触相关蛋白102抗体
Alias:	Discs large Drosophila homolog 3; Discs large homolog 3 neuroendocrine dlg Drosophila; Discs large homolog 3; Discs large homolog 3 Drosophila; Discs, large homolog 3 (Drosophila); Disks large homolog 3; DLG 3; DLG3; DLG3_HUMAN; MPP3; MPP-3; KIAA1232; mKIAA1232; MRX 90; MRX; MRX90; NE Dlg; NEDLG; Neuroendocrine dlg; Neuroendocrine-DLG; OTTHUMP00000023475; OTTHUMP00000023476; OTTHUMP00000023477; SAP 102; SAP-102; SAP102; Synapse associated protein 102; Synapse-associated protein 102; XLMR; bA291O7.3; bA291O7.3 discs large Drosophila homolog 3 neuroendocrine dlg.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	90kDa
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SAP102:501-600/817
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	MPP3, also known as Discs large homolog 3 (DLG3), is a 585 amino acid protein

belonging to the MAGUK family. Proteins in the MAGUK family, including CASK, ZO-1, ZO-2, p55 and MPP2, are known to regulate cell proliferation, intracellular junctions and signaling pathways by interacting with the cytoskeleton. MPP3 contains one guanylate kinase-like domain, one PDZ domain, two L27 domains and one SH3 domain. Via the PDZ domain, MMP3 interacts with the C-terminus of TSLC1. MMP3 has also been found to interact with SR-2A and SR-4.

Function:

Required for learning most likely through its role in synaptic plasticity following NMDA receptor signaling.

Subunit:

Interacts through its PDZ domains with NETO1, GRIN2B and SYNGAP1. Interacts through its guanylate kinase-like domain with DLGAP1, DLGAP2, DLGAP3 and DLGAP4 (By similarity). Interacts through its PDZ domains with APC. Interacts through its first two PDZ domains with ERBB4. Interacts through its third PDZ domain with NLGN1, and probably with NLGN2 and NLGN3. Interacts with FRMPD4 (via C-terminus). Interacts with LRFN1, LRFN2 and LRFN4.

DISEASE:

Defects in DLG3 are the cause of mental retardation X-linked type 90 (MRX90) [MIM:300189]. Mental retardation is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptive behavior and manifested during the developmental period. Non-syndromic mental retardation patients do not manifest other clinical signs.

Similarity:

Belongs to the MAGUK family. Contains 1 guanylate kinase-like domain. Contains 3 PDZ (DHR) domains. Contains 1 SH3 domain.

SWISS:

Q13368

Gene ID:

4356

Database links:

[Entrez Gene: 4356](#) Human

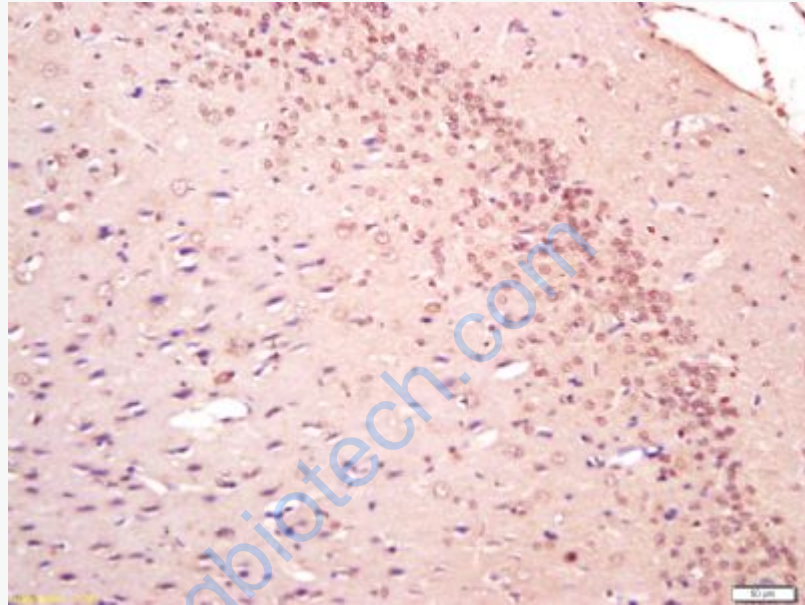
[Omim: 601114](#) Human

[SwissProt: Q13368](#) Human

[Unigene: 396566](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-MPP3 Polyclonal Antibody, Unconjugated(SL11315R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining