



Rabbit Anti-HOMER3 antibody

SL5391R

Product Name:	HOMER3
Chinese Name:	HOMER3蛋白抗体
Alias:	HOMER 3; Homer 3D protein; Homer homolog 3 (Drosophila); Homer neuronal immediate early gene 3; Homer protein homolog 3; Homer3; VESL3; HOME3 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	40kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HOMER3 (51-250aa):51-250/361
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:	This gene encodes a member of the HOMER family of postsynaptic density scaffolding proteins that share a similar domain structure consisting of an N-terminal Enabled/vasodilator-stimulated phosphoprotein homology 1 domain which mediates protein-protein interactions, and a carboxy-termina coiled-coil domain and two leucine

zipper motifs that are involved in self-oligomerization. The encoded protein binds numerous other proteins including group I metabotropic glutamate receptors, inositol 1,4,5-trisphosphate receptors and amyloid precursor proteins and has been implicated in diverse biological functions such as neuronal signaling, T-cell activation and trafficking of amyloid beta peptides. Alternative splicing results in multiple transcript variants.

Function:

Postsynaptic density scaffolding protein. Binds and cross-links cytoplasmic regions of GRM1, GRM5, ITPR1, DNMT3, RYR1, RYR2, SHANK1 and SHANK3. By physically linking GRM1 and GRM5 with ER-associated ITPR1 receptors, it aids the coupling of surface receptors to intracellular calcium release. Isoforms can be differently regulated and may play an important role in maintaining the plasticity at glutamatergic synapses.

Subunit:

Isoform 1 and isoform 2 encode coiled-coil structures that mediate homo- and heteromultimerization.

Subcellular Location:

Cytoplasm. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cell junction, synapse. Note=Postsynaptic density of neuronal cells.

Similarity:

Belongs to the Homer family.
Contains 1 WH1 domain.

SWISS:

Q9NSC5

Gene ID:

9454

Database links:

[Entrez Gene: 9454](#)Human

[Entrez Gene: 26558](#)Mouse

[Entrez Gene: 29548](#)Rat

[Omim: 604800](#)Human

[SwissProt: Q9NSC5](#)Human

[SwissProt: Q99JP6](#)Mouse

[SwissProt: Q9Z2X5](#)Rat

[Unigene: 720208](#)Human

[Unigene: 440659](#)Mouse

[Unigene: 144573](#)Rat

Important Note:

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

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