

Rabbit HOMER1 Polyclonal Antibody | anti-HOMER1 antibody

HOMER1 Antibody

CATALOG # AAA323104	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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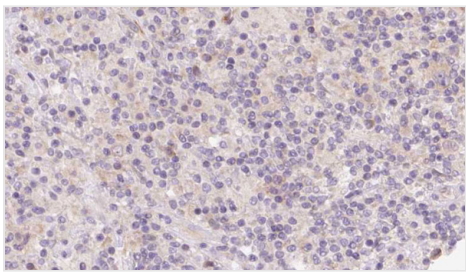
PRODUCT SYNONYMS

HOMER1; Polyclonal Antibody; HOMER1 Antibody; HOME1_HUMAN; Homer; HOMER 1A; HOMER 1B; HOMER 1C; Homer homolog 1 (Drosophila); homer homolog 1; Homer protein homolog 1; homer scaffolding protein 1; Drosophila; homolog of; 1; neuronal immediate early gene; Homer-1; Homer1; HOMER1A; HOMER1B; HOMER1C; SYN47; Ves 1; anti-HOMER1 antibody

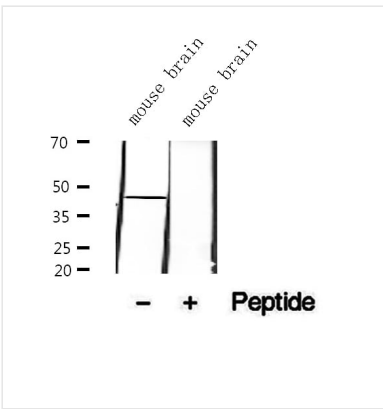
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	HOMER1 antibody detects endogenous levels of HOMER1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	224
Applicable Applications for anti-HOMER1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HOMER1.
Subcellular Location	Cytoplasmic; Cell junction, Synapse, Postsynaptic Cell Membrane, Postsynaptic Density. Note=Postsynaptic density of neuronal cells. Isoform 1 inhibits surface expression of GRM5 causing it to be retained in the endoplasmic reticulum.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
AAA323104 at 1/100 staining Human lymph cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of human/mouse brain, using HOMER1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-HOMER1 antibody	Function: Postsynaptic density scaffolding protein. Binds and cross-links cytoplasmic regions of GRM1, GRM5, ITPR1, DNM3, 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. May also couple GRM1 to PI3 kinase through its interaction with AGAP2. Isoform 1 regulates the trafficking and surface expression of GRM5. Isoform 3 acts as a natural dominant negative, in dynamic competition with constitutively expressed isoform 1 to regulate synaptic metabotropic glutamate function. Isoform 3, may be involved in the structural changes that occur at synapses during long-lasting neuronal plasticity and development. Subunit Structure: Interacts with GRM1, GRM5, ITPR1, DNM3, RYR1, RYR2, SHANK1 and SHANK3. Interacts with IFT57 and OPHN1. Isoform 1 encodes a coiled-coil structure that mediates homo- and heteromultimerization. Similarity: The WH1 domain interacts with the PPXXF motif in GRM1, GRM5, RYR1, RYR2, ITPR1, SHANK 1 and SHANK3. Belongs to the Homer family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	459215038
NCBI GeneID	9456
NCBI Accession #	NP_001264006.1
NCBI GenBank Nucleotide #	NM_001277077.1
UniProt Accession #	Q86YM7; O96003; Q86YM5; B2R688
Molecular Weight	Observed: 46-48 kDa Predicted: 41 kDa
NCBI Official Full Name	homer protein homolog 1 isoform 2
NCBI Official Synonym Full Names	homer scaffold protein 1
NCBI Official Symbol	HOMER1
NCBI Official Synonym Symbols	HOMER; SYN47; Ves-1; HOMER1A; HOMER1B; HOMER1C
NCBI Protein Information	homer protein homolog 1
UniProt Protein Name	Homer protein homolog 1
UniProt Gene Name	HOMER1
UniProt Synonym Gene Names	Homer-1

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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/homer1-antibody-immunohistochemistry-western-blot-elisa/323104>