

Homer protein homolog 1 Antibody

Mouse Monoclonal Antibody [Clone HOMER1/15277]

Catalog No	Format	Size
9456-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
9456-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
9456-MSM1-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Western Blot (WB)	2-4ug/ml	

Product Details

Clone	HOMER1/15277
Immunogen	Recombinant fragment (around aa 121-190) of human HOMER1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG3 / Kappa
Mol. Weight of Antigen	40.28kDa
Cellular Localization	Cell projection, Cytoplasm, Dendritic spine, Postsynaptic density, Synapse
Species Reactivity	Human

*Optimal dilution for a specific application should be determined.

Product Images for Homer protein homolog 1 Antibody

Specificity & Comments

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. Forms a high-order complex with SHANK1, which in turn is necessary for the structural and functional integrity of dendritic spines (By similarity). Negatively regulates T cell activation by inhibiting the calcineurin-NFAT pathway. Acts by competing with calcineurin/PPP3CA for NFAT protein binding, hence preventing NFAT activation by PPP3CA (PubMed:18218901).

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.