

HOMER1 RABBIT MAB

Cat.#: N262354

Product Name: Anti-Homer1 Rabbit Monoclonal Antibody

Synonyms: HOMER; SYN47; Ves-1; HOMERIA; HOMER1B; HOMER1C

UNIPROT ID: Q86YM7

Background: 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. 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 .

Immunogen: Recombinant protein of human Homer1

Applications: WB,IP

Recommended Dilutions: WB: 1/500-1/1000 IP: 1/20

Host Species: Rabbit

Clonality: Rabbit Monoclonal

Clone ID: R01-5B7

MW: Calculated MW: 40 kDa; Observed MW: 46 kDa

Isotype: IgG

Purification: Affinity Purified

Species Reactivity: Mouse,Rat

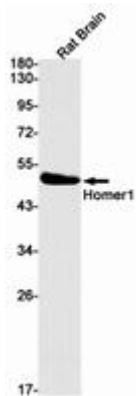
Conjugation: Unconjugated

Modification: Unmodified

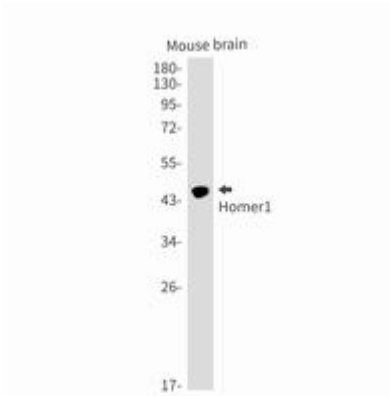
Constituents: PBS (without Mg²⁺ and Ca²⁺), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

Research Areas: Neuroscience

Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



Western blot analysis of Homer1 in rat Brain lysates using Homer1 antibody.



Western blot analysis of Homer1 in mouse brain lysates using Homer1 antibody.