

## Anti-Phospho-HOMER3(Homer protein homolog 3) Polyclonal Antibody

Cat. #: 60C028 Phospho

### Description:

HOMER3(Homer protein homolog 3) is a postsynaptic density scaffolding protein. HOMER3 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. Isoforms can be differently regulated and may play an important role in maintaining the plasticity at glutamatergic synapses. HOMER3 contains 1 WH1 domain. The WH1 domain interacts with the PPXXF motif in GRM1, GRM5, RYR1, RYR2, ITPR1, SHANK 1 and SHANK3.

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

### Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic phospho-peptide(phospho-threonine 36) corresponding to N-terminal residues of human HOMER3 (Homer protein homolog 3)

### References

Xiao,B., et al, Neuron 21 (4), 707-716 (1998)  
Soloviev,M.M., et al, J. Mol. Biol. 295 (5), 1185-1200 (2000)

Clone Number:

Isotype:

Species: human, mouse

Storage and Stability: at -20oC

### Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

### Preparation:

Purified by antigen-specific affinity chromatography.

### Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)