# Homer-3 (m): 293T Lysate: sc-120874



The Power to Question

### **BACKGROUND**

Homer family proteins, also designated Vesl (for VASP/Ena-related gene upregulated during seizure) and LTP, are immediate early gene products that bind to group 1 metabotropic glutamate receptors (mGluRs), proteins involved in triggering intracellular calcium release. Unlike Homer-1a, the prototype member of the Homer family, other Homer family members (Homer-1b and -1c, Homer-2a, -2b and -2c and Homer-3) are constitutively expressed and contain a coiled-coil (CC) domain that mediates self-multimerization. Homer-1a is enriched at excitatory synapses, does not multimerize and appears to block the association of mGluRs to CC-Homer proteins. Homer proteins have also been shown to link mGluRs with the inositol triphosphate receptors (IP3R).

### **REFERENCES**

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## **CHROMOSOMAL LOCATION**

Genetic locus: Homer3 (mouse) mapping to 8 B3.3.

# **PRODUCT**

Homer-3 (m): 293T Lysate represents a lysate of mouse Homer-3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

### **APPLICATIONS**

Homer-3 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Homer-3 antibodies. Recommended use: 10-20 µl per lane.

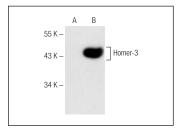
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

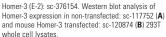
Homer-3 (E-2): sc-376154 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Homer-3 expression in Homer-3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

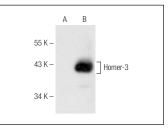
### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

#### DATA







Homer-3 (E-6): sc-376155. Western blot analysis of Homer-3 expression in non-transfected: sc-117752 (A) and mouse Homer-3 transfected: sc-120874 (B) 293T whole cell lysates.

#### STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

# **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.