Homer (h): 293 Lysate: sc-113176



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: HOMER1 (human) mapping to 5q14.1.

PRODUCT

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

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.

APPLICATIONS

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

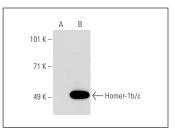
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

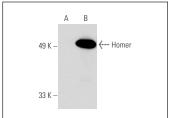
Homer-1b/c (D-8): sc-55463 is recommended as a positive control antibody for Western Blot analysis of enhanced human Homer expression in Homer transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA





Homer-1b/c (D-8): sc-55463. Western blot analysis of Homer-1b/c expression in non-transfected: sc-110760 (A) and human Homer transfected: sc-113176 (B) 293 whole cell Ivsates.

Homer (D-3): sc-17842. Western blot analysis of Homer expression in non-transfected: sc-110760 (A) and human Homer transfected: sc-113176 (B) 293 whole cell Ivsates.

RESEARCH USE

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

PROTOCOLS

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

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