

ABLIM3 (h22): 293 Lysate: sc-127909

BACKGROUND

The *C. elegans* protein Unc-115 mediates axon guidance by modulating the growth cone actin cytoskeleton in response to signals received by growth cone receptors. The mammalian homolog of Unc-115 is the actin-binding LIM protein family member 1 (ABLIM1, also designated Limatin). The ABLIM1 protein has an N-terminal domain that contains four double zinc finger motifs, which conform to the LIM motif consensus sequence. ABLIM1 binds to F-Actin through a dematin-like domain and is expressed in retina, brain and muscle tissue. There are four known isoforms of ABLIM1. The gene encoding ABLIM1 maps to a region of chromosome 10 associated with frequent loss of heterozygosity in human tumors, thus identifying ABLIM1 as a candidate tumor suppressor gene. ABLIM2 and ABLIM3 show highest expression in muscle and neuronal tissues, bind to F-Actin, and are localized on stress fibers. They also have been shown to enhance STARS (striated muscle activator of Rho signaling) dependent activation of serum-response factor (SRF), thereby modulating transcription.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ABLIM3 (human) mapping to 5q32.

PRODUCT

ABLIM3 (h22): 293 Lysate represents a lysate of human ABLIM3 transfected 293 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

ABLIM3 (h22): 293 Lysate is suitable as a Western Blotting positive control for human reactive ABLIM3 antibodies. Recommended use: 10-20 µl per lane.

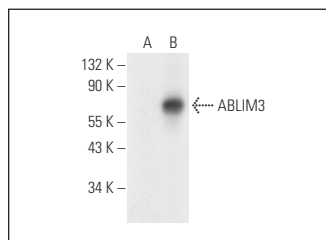
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

ABLIM3 (C-2): sc-398575 is recommended as a positive control antibody for Western Blot analysis of enhanced human ABLIM3 expression in ABLIM3 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-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



ABLIM3 (C-2): sc-398575. Western blot analysis of ABLIM3 expression in non-transfected: sc-110760 (A) and human ABLIM3 transfected: sc-127909 (B) 293 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.