Abi-1 (H-80): sc-30038



The Power to Question

BACKGROUND

The Abelson oncogene was initially identified as the viral transforming component of Abelson murine leukemia virus (A-MuLV). The Abelson gene (ABL1) encodes a SH2-domain bearing tyrosine kinase which conducts mitogenic signaling pursuant to growth factor receptor ligation. The Abl interactor proteins, Abi-1 and Abi-2, are SH3-domain containing proteins that bind to the proline-rich motifs of Abl and activate the kinase function. Two splice variants of Abi-1 are widely expressed, with the highest levels found in bone marrow, spleen, brain and testis. Abi-1 and Abi-2 are thought to negatively regulate cell growth and transformation, including cellular transformation through v-Abl. ABI1, the gene encoding Abi-1, has been shown to translocate and fuse with MLL (mixed lineage leukemia) gene in some cases of acute myeloid leukemia (AML). The Abi proteins have also been identified as mediators of cell motility by regulating Actin polymerization in lamellipodia and filopodia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ABI1 (human) mapping to 10p12.1; Abi1 (mouse) mapping to 2 A3.

SOURCE

Abi-1 (H-80) is a rabbit polyclonal antibody raised against amino acids 271-350 mapping within an internal region of Abi-1 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

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

APPLICATIONS

Abi-1 (H-80) is recommended for detection of Abi-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

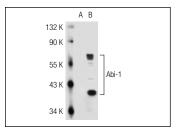
Abi-1 (H-80) is also recommended for detection of Abi-1 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for Abi-1 siRNA (h): sc-40306, Abi-1 siRNA (m): sc-40307, Abi-1 shRNA Plasmid (h): sc-40306-SH, Abi-1 shRNA Plasmid (m): sc-40307-SH, Abi-1 shRNA (h) Lentiviral Particles: sc-40306-V and Abi-1 shRNA (m) Lentiviral Particles: sc-40307-V.

Molecular Weight of Abi-1: 55 kDa.

Positive Controls: Abi-1 (m): 293T Lysate: sc-126367 or HeLa whole cell lysate: sc-2200.

DATA



Abi-1 (H-80): sc-30038. Western blot analysis of Abi-1 expression in non-transfected: sc-117752 (**A**) and mouse Abi-1 transfected: sc-126367 (**B**) 293T whole cell Ivsates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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



Try **Abi-1 (C-1):** sc-398554 or **Abi-1 (B-12):** sc-271180, our highly recommended monoclonal aternatives to Abi-1 (H-80).

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