

Abi-3 (N-14): sc-160124

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 Abi interactor proteins, Abi-1, Abi-2 and Abi-3, are SH3-domain containing proteins that bind to the proline-rich motifs of Abl and activate the kinase function. The Abi family members are thought to negatively regulate cell growth and transformation, including cellular transformation through v-Abl as well as mediate cell motility by regulating actin polymerization in lamellipodia and filopodia. Abi-3, also designated NESH, is a 366 amino acid protein that interacts with TARSH, a cellular senescence-related gene that acts as a trigger of tumor development.

CHROMOSOMAL LOCATION

Genetic locus: ABI3 (human) mapping to 17q21.32; Abi3 (mouse) mapping to 11 D.

SOURCE

Abi-3 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Abi-3 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-160124 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Abi-3 (N-14) is recommended for detection of Abi-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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); non cross-reactive with Abi-1 or Abi-2.

Abi-3 (N-14) is also recommended for detection of Abi-3 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for Abi-3 siRNA (h): sc-93770, Abi-3 siRNA (m): sc-140778, Abi-3 shRNA Plasmid (h): sc-93770-SH, Abi-3 shRNA Plasmid (m): sc-140778-SH, Abi-3 shRNA (h) Lentiviral Particles: sc-93770-V and Abi-3 shRNA (m) Lentiviral Particles: sc-140778-V.

Molecular Weight (predicted) of Abi-3: 39 kDa.

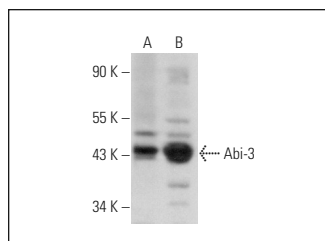
Molecular Weight (observed) of Abi-3: 43 kDa.

Positive Controls: mouse spleen extract: sc-2391, KNRK whole cell lysate: sc-2214 or WI-38 whole cell lysate: sc-364260.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Abi-3 (N-14): sc-160124. Western blot analysis of Abi-3 expression in mouse spleen tissue extract (A) and WI 38 whole cell lysate (B).

RESEARCH USE

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

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **Abi-3 (C-7): sc-376982**, our highly recommended monoclonal alternative to Abi-3 (N-14).