SANTA CRUZ BIOTECHNOLOGY, INC.

Abi-3 (C-18): sc-160122

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, 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.

REFERENCES

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CHROMOSOMAL LOCATION

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

RESEARCH USE

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

SOURCE

Abi-3 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-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-160122 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Abi-3 (C-18) 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), 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 (C-18) is also recommended for detection of Abi-3 in additional species, including equine, canine, 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: KNRK whole cell lysate: sc-2214, mouse spleen extract: sc-2391 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) 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.

STORAGE

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