

Bcl-rambo (S-18): sc-54573

BACKGROUND

Apoptosis is defined as a set of cascades which, when initiated, program the cell to undergo lethal changes such as membrane blebbing, mitochondrial breakdown and DNA fragmentation. The Bcl-2 family of proteins plays a central regulatory role in apoptosis. Bcl-rambo, a member of the Bcl-2 family, localizes to the mitochondria and, like other Bcl-2 family members, contains all four BH domains. Although Bcl-rambo shares structural similarity to other Bcl-2 members, it differs from them in its unique C-terminal region. Bcl-rambo has a 250 amino acid sequence containing 2 tandem repeats that precedes the membrane anchor region at its C-terminus. Additionally, it is the membrane anchor C-terminal region of Bcl-rambo, not its Bcl-2 homology motifs, that is responsible for its pro-apoptotic activity. Bcl-rambo induces apoptosis when overexpressed and appears to do so by promoting mitochondrial cytochrome c release. It may also facilitate the activation of caspase-3.

CHROMOSOMAL LOCATION

Genetic locus: BCL2L13 (human) mapping to 22q11.21; Bcl2l13 (mouse) mapping to 6 F1.

SOURCE

Bcl-rambo (S-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Bcl-rambo 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-54573 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Bcl-rambo (S-18) is recommended for detection of Bcl-rambo 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).

Bcl-rambo (S-18) is also recommended for detection of Bcl-rambo in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Bcl-rambo siRNA (h): sc-62015, Bcl-rambo siRNA (m): sc-62016, Bcl-rambo shRNA Plasmid (h): sc-62015-SH, Bcl-rambo shRNA Plasmid (m): sc-62016-SH, Bcl-rambo shRNA (h) Lentiviral Particles: sc-62015-V and Bcl-rambo shRNA (m) Lentiviral Particles: sc-62016-V.

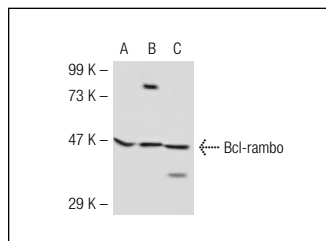
Molecular Weight of Bcl-rambo: 53 kDa.

Positive Controls: Bcl-rambo (m2): 293T Lysate: sc-118787 or HeLa whole cell lysate: sc-2200.

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



Bcl-rambo (S-18): sc-54573. Western blot analysis of Bcl-rambo expression in non-transfected 293T: sc-117752 (A), mouse Bcl-rambo transfected 293T: sc-118787 (B) and HeLa (C) whole cell lysates.

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 **Bcl-rambo (G-9): sc-390598** or **Bcl-rambo (6D161): sc-70416**, our highly recommended monoclonal alternatives to Bcl-rambo (S-18).