**BACKGROUND**

The BH3-only proteins, which include Blk, Bad, Bik, Hrk, BID, Bim, NOXA, PUMA and Bmf, are proapoptotic members of the Bcl-2 family. Bcl-2 modifying factor (Bmf) is a BH3-only protein that binds prosurvival Bcl-2 family members to initiate apoptosis. Bmf is sequestered to Myosin V motors on Actinin in the cytoskeleton by associating with Dynein light chain 2 (DLC2) homodimers. If the cell undergoes loss of attachment ( anoikis), the cytoskeleton is disrupted and Bmf is released from DLC2. Bmf then translocates to the mitochondria, where Bcl-2 (an anti-apoptotic family member) is sequestered. The BH3 domain of Bmf facilitates binding to a hydrophobic groove on the surface of Bcl-2. Binding results in a caspase cascade leading to apoptosis. Bmf is widely expressed in tissues such as pancreas, liver and kidney, and in hematopoietic tissues. The gene encoding Bmf maps to chromosome 15q15.1.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: BMF (human) mapping to 15q15.1; Bmf (mouse) mapping to 2 E5.

**SOURCE**

Bmf (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Bmf 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-20182 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

Bmf (P-15) is recommended for detection of Bmf 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).

Bmf (P-15) is also recommended for detection of Bmf in additional species, including equine and canine.

Suitable for use as control antibody for Bmf siRNA (h): sc-45930, Bmf siRNA (m): sc-45931, Bmf shRNA Plasmid (h): sc-45930-SH, Bmf shRNA Plasmid (m): sc-45931-SH, Bmf shRNA (h) Lentiviral Particles: sc-45930-V and Bmf shRNA (m) Lentiviral Particles: sc-45931-V.

Molecular Weight of Bmf: 20 kDa.

**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.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

**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.