

NOXA (FL-103): sc-22764

BACKGROUND

Members of the Bcl-2 family of proteins interact to regulate programmed cell death (apoptosis) under a broad range of physiological conditions. Bcl-2, Bcl-x_L and several related proteins inhibit apoptosis, whereas other members of the Bcl-2 family, such as Bax and Bak, enhance cell death. NOXA, a proapoptotic member of the Bcl-2 family, contains the Bcl-2 homology 3 (BH3) region, but does not contain other BH domains. Murine cells constitutively express NOXA mRNA in small amounts in various organs; X-ray irradiation increases NOXA mRNA and protein expression levels. In human cells, NOXA, alternatively designated PMA-induced protein 1 or APR, displays high expression in the adult T cell leukemia cell line IKD, where it may function as an immediate-early-response gene. The NOXA protein selectively localizes to mitochondria.

CHROMOSOMAL LOCATION

Genetic locus: PMAIP1 (human) mapping to 18q21.32; Pmaip1 (mouse) mapping to 18 E1.

SOURCE

NOXA (FL-103) is a rabbit polyclonal antibody raised against amino acids 1-103 representing full length NOXA of mouse origin.

PRODUCT

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

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.

APPLICATIONS

NOXA (FL-103) is recommended for detection of NOXA of mouse, rat and, to a lesser extent, 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).

Suitable for use as control antibody for NOXA siRNA (h): sc-37305, NOXA siRNA (m): sc-37306, NOXA shRNA Plasmid (h): sc-37305-SH, NOXA shRNA Plasmid (m): sc-37306-SH, NOXA shRNA (h) Lentiviral Particles: sc-37305-V and NOXA shRNA (m) Lentiviral Particles: sc-37306-V.

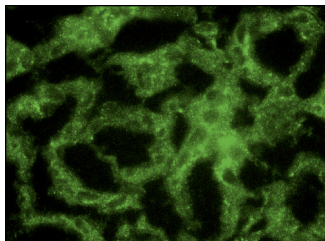
Molecular Weight of NOXA: 15 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214 or RAW 264.7 whole cell lysate: sc-2211.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



NOXA (FL-103): sc-22764. Immunofluorescence staining of normal mouse kidney frozen section showing cytoplasmic staining.

SELECT PRODUCT CITATIONS

- Lewis, J.S., et al. 2005. Intrinsic mechanism of estradiol-induced apoptosis in breast cancer cells resistant to estrogen deprivation. *J. Natl. Cancer Inst.* 97: 1746-1759.
- Fribley, A., et al. 2009. Regulation of apoptosis by the unfolded protein response. *Methods Mol. Biol.* 559: 191-204.
- Xiang, Z., et al. 2010. Mcl1 haploinsufficiency protects mice from Myc-induced acute myeloid leukemia. *J. Clin. Invest.* 120: 2109-2118.
- Stadanlick, J.E., et al. 2011. Developmental arrest of T cells in Rpl22-deficient mice is dependent upon multiple p53 effectors. *J. Immunol.* 187: 664-675.
- Liu, N., et al. 2015. Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells. *FEBS Lett.* 589: 897-903.

RESEARCH USE

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


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