

# NOXA (FL-54): sc-30209

## 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<sub>L</sub> 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-54) is a rabbit polyclonal antibody raised against amino acids 1-54 representing full length NOXA 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.

## APPLICATIONS

NOXA (FL-54) is recommended for detection of NOXA of human and, to a lesser extent, mouse 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: Jurkat whole cell lysate: sc-2204, U-937 cell lysate: sc-2239 or HuT 78 whole cell lysate: sc-2208.

## STORAGE

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

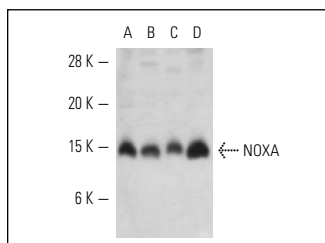
## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## RESEARCH USE

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

## DATA



NOXA (FL-54): sc-30209. Western blot analysis of NOXA expression in Jurkat (A), U-937 (B), RAW 264.7 (C) and HuT 78 (D) whole cell lysates.

## SELECT PRODUCT CITATIONS

- Subramanian, T., et al. 2007. Evidence for involvement of BH3-only proapoptotic members in adenovirus-induced apoptosis. *J. Virol.* 81: 10486-10495.
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- Yang, G., et al. 2012. MEHP-induced oxidative DNA damage and apoptosis in HepG2 cells correlates with p53-mediated mitochondria-dependent signaling pathway. *Food Chem. Toxicol.* 50: 2424-2431.
- Allaman-Pillet, N., et al. 2013. The Bcl-2/Bcl-x<sub>L</sub> inhibitor ABT-737 promotes death of retinoblastoma cancer cells. *Ophthalmic Genet.* 34: 1-13.
- Dinh, P.X., et al. 2013. Heterogeneous nuclear ribonucleoprotein k supports vesicular stomatitis virus replication by regulating cell survival and cellular gene expression. *J. Virol.* 87: 10059-10069.
- Harashima, N., et al. 2014. Transfection of poly(I:C) can induce reactive oxygen species-triggered apoptosis and interferon-β-mediated growth arrest in human renal cell carcinoma cells via innate adjuvant receptors and the 2-5A system. *Mol. Cancer* 13: 217.
- Zhang, H., et al. 2016. Synergistic tumor suppression by adenovirus-mediated ING4/PTEN double gene therapy for gastric cancer. *Cancer Gene Ther.* 23: 13-23.

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