NOXA (F-3): sc-515840

**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-xL, and several related proteins inhibit apoptosis, whereas other members of the Bcl-2 family, such as Bax and Bak, enhance cell death. NOXA, a pro-apoptotic 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 IKT, 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.

**SOURCE**

NOXA (F-3) is a mouse monoclonal antibody raised against amino acids 1-54 representing full length NOXA of human origin.

**PRODUCT**

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

NOXA (F-3) is available conjugated to agarose (sc-515840 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515840 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515840 PE), fluorescein (sc-515840 FITC), Alexa Fluor® 488 (sc-515840 AF488), Alexa Fluor® 546 (sc-515840 AF546), Alexa Fluor® 594 (sc-515840 AF594) or Alexa Fluor® 647 (sc-515840 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515840 AF680) or Alexa Fluor® 790 (sc-515840 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**RESEARCH USE**

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

**APPLICATIONS**

NOXA (F-3) is recommended for detection of NOXA of human origin by Western Blotting (starting dilution 1:100, 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 shRNA Plasmid (h): sc-37305-SH and NOXA shRNA (h) Lentiviral Particles: sc-37305-V.

Molecular Weight of NOXA: 15 kDa.

Positive Controls: NOXA (h): 293T Lysate: sc-117157.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1. Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2. Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

![Western blot analysis of NOXA expression in non-transfected: sc-117752 (A) and human NOXA transfected: sc-117157 (B) 293T whole cell lysates.](image)

**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.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.