

ING3 (H-79): sc-366026

BACKGROUND

ING3 is a nuclear tumor-suppressor protein that has been shown to activate UV-induced apoptosis through a FAS mediated pathway. It has also exhibited the ability to regulate p53 mediated transcription and apoptosis, likely by acting as an agent of the NuA4 complex histone acetyltransferase (HAT) complex. Overexpression of ING3 has also shown to increase the cleavage of apoptosis related caspases and BID, however, this is done through a pathway that does not involve increasing mitochondrial proteins. Defects of ING3 lead to a decrease of UV-induced apoptosis and such is believed to greatly affect the prognosis of melanomas and head and neck cancers.

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CHROMOSOMAL LOCATION

Genetic locus: ING3 (human) mapping to 7q31.31; Ing3 (mouse) mapping to 6 A3.1.

SOURCE

ING3 (H-79) is a rabbit polyclonal antibody raised against amino acids 1-79 mapping at the N-terminus of ING3 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

ING3 (H-79) is recommended for detection of ING3 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).

ING3 (H-79) is also recommended for detection of ING3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ING3 siRNA (h): sc-62505, ING3 siRNA (m): sc-62506, ING3 shRNA Plasmid (h): sc-62505-SH, ING3 shRNA Plasmid (m): sc-62506-SH, ING3 shRNA (h) Lentiviral Particles: sc-62505-V and ING3 shRNA (m) Lentiviral Particles: sc-62506-V.

Molecular Weight of ING3: 47 kDa.

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.

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.


 MONOS
Satisfation
Guaranteed

Try **ING3 (162.1): sc-101245**, our highly recommended monoclonal alternative to ING3 (H-79).