**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 histone acetyltransferase (HAT) complex. Overexpression of ING3 increases the cleavage of apoptosis-related caspases and BID, however, this is done through a pathway that does not involve increasing the expression of mitochondrial proteins. Defects in the gene encoding ING3 lead to a decrease of UV-induced apoptosis and, thus, is believed to greatly affect the prognosis of melanomas and head and neck cancers.

**REFERENCES**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

ING3 (162.1) is a mouse monoclonal antibody raised against recombinant ING3 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG2b kappa light chain 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.

**APPLICATIONS**

ING3 (162.1) 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).

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.

Positive Controls: DU 145 nuclear extract: sc-24960 or PC-12 cell lysate: sc-2250.

**RECOMMENDED SUPPORT REAGENTS**

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


**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

**PROTOCOLS**

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