

ING5 (S-16): sc-324887

BACKGROUND

Inhibitor of growth protein (ING) family of nuclear proteins, also designated ING tumor suppressor proteins, inhibit tumor progression by modulating the transcriptional outputs of signaling pathways, which in turn regulates cell proliferation. Members of this family include ING1, ING2, ING3, ING4, ING5 and INGX. ING5 (inhibitor of growth family, member 5), also known as p28ING5, is a 240 amino acid nuclear protein containing a single PHD-type zinc finger, a common motif found in proteins involved in chromatin remodeling. Through chromatin acetylation, ING5 may regulate DNA replication and may function as a transcriptional coactivator. ING5 also acts as a tumor suppressor that interacts with p53, inhibits cell growth and induces apoptosis. ING5 is expressed as two isoforms produced by alternative splicing events and is encoded by a gene located on human chromosome 2.

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CHROMOSOMAL LOCATION

Genetic locus: ING5 (human) mapping to 2q37.3; Ing5 (mouse) mapping to 1 D.

SOURCE

ING5 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ING5 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.

Blocking peptide available for competition studies, sc-324887 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ING5 (S-16) is recommended for detection of ING5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other ING family members.

ING5 (S-16) is also recommended for detection of ING5 in additional species, including equine, canine and avian.

Suitable for use as control antibody for ING5 siRNA (h): sc-105577, ING5 siRNA (m): sc-146237, ING5 shRNA Plasmid (h): sc-105577-SH, ING5 shRNA Plasmid (m): sc-146237-SH, ING5 shRNA (h) Lentiviral Particles: sc-105577-V and ING5 shRNA (m) Lentiviral Particles: sc-146237-V.

Molecular Weight of ING5: 27 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.