

MANEAL (I-16): sc-247930

BACKGROUND

MANEAL (mannosidase, endo- α -like), also known as glycoprotein endo- α -1,2-mannosidase-like, is a 457 amino acid single-pass type II membrane protein of the Golgi apparatus that belongs to the glycosyl hydrolase 99 family. Existing as three alternatively spliced isoforms, MANEAL is encoded by a gene that maps to human chromosome 1p34.3. Human chromosome 1 spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

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CHROMOSOMAL LOCATION

Genetic locus: MANEAL (human) mapping to 1p34.3; Maneal (mouse) mapping to 4 D2.2.

SOURCE

MANEAL (I-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MANEAL of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-247930 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MANEAL (I-16) is recommended for detection of MANEAL 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).

MANEAL (I-16) is also recommended for detection of MANEAL in additional species, including bovine and avian.

Suitable for use as control antibody for MANEAL siRNA (h): sc-88063, MANEAL siRNA (m): sc-145564, MANEAL shRNA Plasmid (h): sc-88063-SH, MANEAL shRNA Plasmid (m): sc-145564-SH, MANEAL shRNA (h) Lentiviral Particles: sc-88063-V and MANEAL shRNA (m) Lentiviral Particles: sc-145564-V.

Molecular Weight of MANEAL isoforms: 51/27 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.