

DnaJC13 (N-18): sc-99380

BACKGROUND

The DnaJ family, one of the largest of all the chaperone families, has evolved with diverse cellular localization and functions. The presence of the J domain defines a protein as a member of the DnaJ family. DnaJ heat-shock induced proteins are derived from the bacterium *Escherichia coli* and are under the control of the htpR regulatory protein. The DnaJ proteins play a critical role in the HSP 70 chaperone machine by interacting with HSP 70 to stimulate ATP hydrolysis. Members of this family contain cysteine-rich regions that are composed of zinc fingers that form a peptide-binding domain responsible for the chaperone function. They are important mediators of proteolysis and are involved in the regulation of protein degradation, exocytosis and endocytosis. DnaJC13 (DnaJ homolog subfamily C member 13), also designated receptor-mediated endocytosis 8 (RME-8), is a 2,243 amino acid protein that contains one J domain and functions to mediate endosomal trafficking. DnaJC13 also influences epidermal growth factor receptor (EGFR) levels and may be a potential therapeutic target in ErbB2-positive breast cancers.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DNAJC13 (human) mapping to 3q22.1; Dnajc13 (mouse) mapping to 9 F1.

SOURCE

DnaJC13 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of DnaJC13 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-99380 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DnaJC13 (N-18) is recommended for detection of DnaJC13 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).

DnaJC13 (N-18) is also recommended for detection of DnaJC13 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for DnaJC13 siRNA (h): sc-77968, DnaJC13 shRNA Plasmid (h): sc-77968-SH and DnaJC13 shRNA (h) Lentiviral Particles: sc-77968-V.

Molecular Weight of DnaJC13: 254 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.