

DnaJA2 (C-13): sc-107519

BACKGROUND

The DnaJ family is one of the largest of all the chaperone families and 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 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. The proteins contain cysteine rich regions that are composed of zinc fingers that form a peptide binding domain responsible for the chaperone function. DnaJ proteins are important mediators of proteolysis and are involved in the regulation of protein degradation, exocytosis and endocytosis. DnaJA2 (DnaJ homolog subfamily A member 2), also known as HIRA-interacting protein 4 or cell cycle progression restoration gene 3 protein, contains one CR-type zinc finger and is a co-chaperone of HSC 70.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DNAJA2 (human) mapping to 16q11.2; Dnaj2 (mouse) mapping to 8 C3.

RESEARCH USE

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

SOURCE

DnaJA2 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of DnaJA2 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-107519 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DnaJA2 (C-13) is recommended for detection of DnaJA2 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).

DnaJA2 (C-13) is also recommended for detection of DnaJA2 in additional species, including canine.

Suitable for use as control antibody for DnaJA2 siRNA (h): sc-93101, DnaJA2 siRNA (m): sc-143089, DnaJA2 shRNA Plasmid (h): sc-93101-SH, DnaJA2 shRNA Plasmid (m): sc-143089-SH, DnaJA2 shRNA (h) Lentiviral Particles: sc-93101-V and DnaJA2 shRNA (m) Lentiviral Particles: sc-143089-V.

Molecular Weight of DnaJA2: 46 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

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.


 MONOS
 Satisfaction
 Guaranteed

Try **DnaJA2 (7): sc-136515**, our highly recommended monoclonal alternative to DnaJA2 (C-13).