

DnaJC6 (D-12): sc-104213

BACKGROUND

The DnaJ family is one of the largest of all chaperone families and has evolved with diverse cellular localization and functions. The presence of a 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. 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. DnaJC6 (DnaJ (Hsp40) homolog, subfamily C, member 6), also known as DJC6, is a 913 amino acid protein containing a C2 tensin-type domain, a J domain and a phosphatase tensin-type domain. DnaJC6 recruits HSC 70 to clathrin-coated vesicles and promotes uncoating of clathrin-coated vesicles.

REFERENCES

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3. Müller, S., et al. 2000. Molecular cytogenetic dissection of human chromosomes 3 and 21 evolution. *Proc. Natl. Acad. Sci. USA* 97: 206-211.
4. Mao, R., et al. 2005. Primary and secondary transcriptional effects in the developing human Down syndrome brain and heart. *Genome Biol.* 6: R107.
5. Robakis, N.K. 2006. The discovery and mapping to chromosome 21 of the Alzheimer's amyloid gene: history revised. *J. Alzheimers Dis.* 10: 453-455.
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CHROMOSOMAL LOCATION

Genetic locus: DNAJC6 (human) mapping to 1p31.3; Dnajc6 (mouse) mapping to 4 C6.

SOURCE

DnaJC6 (D-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DnaJC6 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-104213 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DnaJC6 (D-12) is recommended for detection of DnaJC6 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).

DnaJC6 (D-12) is also recommended for detection of DnaJC6 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for DnaJC6 siRNA (h): sc-88612, DnaJC6 siRNA (m): sc-105310, DnaJC6 shRNA Plasmid (h): sc-88612-SH, DnaJC6 shRNA Plasmid (m): sc-105310-SH, DnaJC6 shRNA (h) Lentiviral Particles: sc-88612-V and DnaJC6 shRNA (m) Lentiviral Particles: sc-105310-V.

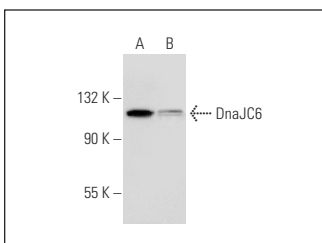
Molecular Weight of DnaJC6: 100 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203 or Hep G2 cell lysate: sc-2227.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



DnaJC6 (D-12): sc-104213. Western blot analysis of DnaJC6 expression in K-562 (A) and Hep G2 (B) whole cell lysates.

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.