**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 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. DnaJC10 (DnaJ homolog subfamily C member 10), also known as ERdj5 (ER-resident protein) or macrothioredoxin, is an endoplasmic reticulum co-chaperone may play a role in protein folding and translocation across the endoplasmic reticulum membrane.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: DNAJC10 (human) mapping to 2q32.1; Dnajc10 (mouse) mapping to 2C3.

**SOURCE**

DnaJC10 (66.7) is a mouse monoclonal antibody raised against recombinant DnaJC10 of human origin.

**PRODUCT**

Each vial contains 50 µg IgG kappa light chain in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No SDS required.

**RESEARCH USE**

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

**APPLICATIONS**

DnaJC10 (66.7) is recommended for detection of DnaJC10 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DnaJC10 siRNA (h): sc-94897.
DnaJC10 siRNA (m): sc-143099, DnaJC10 shRNA Plasmid (h): sc-94897-SH, DnaJC10 shRNA Plasmid (m): sc-143099-SH, DnaJC10 shRNA (h) Lentiviral Particles: sc-94897-V and DnaJC10 shRNA (m) Lentiviral Particles: sc-143099-V.
Molecular Weight of DnaJC10: 91 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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 m-IgG BP-FTC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our website at www.scbt.com for detailed protocols and support products.