

# DnaJC10 (E-14): sc-132273

## 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. 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

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## CHROMOSOMAL LOCATION

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

## SOURCE

DnaJC10 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DnaJC10 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-132273 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

DnaJC10 (E-14) is recommended for detection of DnaJC10 isoforms 1 and 2 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); non cross-reactive with other DnaJC family members.

DnaJC10 (E-14) is also recommended for detection of DnaJC10 isoforms 1 and 2 in additional species, including canine, bovine and porcine.

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.

Positive Controls: HeLa whole cell lysate: sc-2200.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.