

DnaJC3 (N-17): sc-84088

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. DnaJC3 (DnaJ homolog subfamily C member 3), also known as P58, HP58, PRKRI or P58IPK, is an Interferon-induced, double-stranded RNA-activated protein kinase inhibitor.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DNAJC3 (human) mapping to 13q32.1; Dnajc3 (mouse) mapping to 14 E4.

SOURCE

DnaJC3 (N-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of DnaJC3 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-84088 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-84088 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DnaJC3 (N-17) is recommended for detection of DnaJC3 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).

DnaJC3 (N-17) is also recommended for detection of DnaJC3 in additional species, including bovine and porcine.

Suitable for use as control antibody for DnaJC3 siRNA (h): sc-105309, DnaJC3 siRNA (m): sc-143108, DnaJC3 shRNA Plasmid (h): sc-105309-SH, DnaJC3 shRNA Plasmid (m): sc-143108-SH, DnaJC3 shRNA (h) Lentiviral Particles: sc-105309-V and DnaJC3 shRNA (m) Lentiviral Particles: sc-143108-V.

DnaJC3 (N-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of DnaJC3: 58 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 goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.



Try **DnaJC3 (A-7): sc-393559**, our highly recommended monoclonal alternative to DnaJC3 (N-17).