

# HSP 75 (C-18): sc-69286

## BACKGROUND

The heat shock proteins (HSPs) comprise a group of highly conserved, abundantly expressed proteins with diverse functions, including the assembly and sequestering of multiprotein complexes, transportation of nascent polypeptide chains across cellular membranes and regulation of protein folding. Heat shock protein 75 mitochondrial precursor (HSP 75), also called tumor necrosis factor type 1 receptor-associated protein (TRAP1), is a 704 amino acid member of the heat shock protein 90 family. HSP 75 localizes to the mitochondrion and is expressed in a variety of tissues, including skeletal muscle, liver, heart, brain, pancreas, lung and placenta, functioning as a chaperone that expresses an ATPase activity.

## CHROMOSOMAL LOCATION

Genetic locus: TRAP1 (human) mapping to 16p13.3; Trap1 (mouse) mapping to 16 A1.

## SOURCE

HSP 75 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HSP 75 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-69286 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## 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.

## APPLICATIONS

HSP 75 (C-18) is recommended for detection of HSP 75 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), 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).

HSP 75 (C-18) is also recommended for detection of HSP 75 in additional species, including equine, bovine, porcine and avian.

Suitable for use as control antibody for HSP 75 siRNA (h): sc-72191, HSP 75 siRNA (m): sc-72192, HSP 75 shRNA Plasmid (h): sc-72191-SH, HSP 75 shRNA Plasmid (m): sc-72192-SH, HSP 75 shRNA (h) Lentiviral Particles: sc-72191-V and HSP 75 shRNA (m) Lentiviral Particles: sc-72192-V.

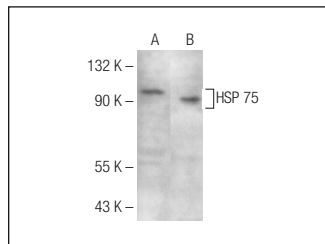
Molecular Weight of HSP 75: 75 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, SJRH30 cell lysate: sc-2287 or MIA PaCa-2 cell lysate: sc-2285.

## 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



HSP 75 (C-18): sc-69286. Western blot analysis of HSP 75 expression in MIA PaCa-2 (A) and K-562 (B) whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **HSP 75 (F-7): sc-390061** or **HSP 75 (30): sc-136421**, our highly recommended monoclonal alternatives to HSP 75 (C-18).