

HtrA2 (H-60): sc-25606

BACKGROUND

The human homolog of the *E. coli* htrA gene product, HtrA, is identified in osteoarthritic cartilage and is repressed in SV40-transformed fibroblast. The gene encoding HtrA protein is highly conserved among mammalian species and belongs to the serine protease family. The HtrA protein contains an IGF-binding domain and exhibits endoproteolytic activity, including autocatalytic cleavage. HtrA is a secreted protein that is expressed in heterologous systems. HtrA plays a role in the degradation of denatured proteins and cell growth regulation. Human HtrA2 (also designated Omi), a novel member of the HtrA serine protease family, is highly homologous to HtrA (also known as L56 and HtrA1). HtrA2 is an ubiquitously expressed nuclear protease that is capable of autoproteolysis. The HtrA2 protein exists as two polypeptides and as an alternatively spliced form called D-Omi, which is predominately expressed in the kidney, colon and thyroid. Due to a modified PDZ domain, D-Omi does not interact with the known partner of HtrA2, the Mxi2 protein. Like HtrA, HtrA2 is involved in the degradation aberrantly folded proteins during conditions of cellular stress, suggesting that it may possess a chaperone-like role under normal conditions.

CHROMOSOMAL LOCATION

Genetic locus: HTRA2 (human) mapping to 2p13.1; Htra2 (mouse) mapping to 6 C3.

SOURCE

HtrA2 (H-60) is a rabbit polyclonal antibody raised against amino acids 341-400 of HtrA2 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.

APPLICATIONS

HtrA2 (H-60) is recommended for detection of HtrA2 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).

HtrA2 (H-60) is also recommended for detection of HtrA2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for HtrA2 siRNA (h): sc-35615, HtrA2 siRNA (m): sc-35616, HtrA2 shRNA Plasmid (h): sc-35615-SH, HtrA2 shRNA Plasmid (m): sc-35616-SH, HtrA2 shRNA (h) Lentiviral Particles: sc-35615-V and HtrA2 shRNA (m) Lentiviral Particles: sc-35616-V.

Molecular Weight of HtrA2 precursor: 50 kDa.

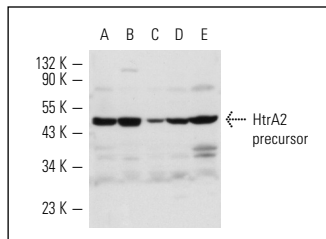
Molecular Weight of HtrA2 processed forms: 38/40 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HL-60 whole cell lysate: sc-2209 or Caki-1 cell lysate: sc-2224.

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

DATA



HtrA2 (H-60): sc-25606. Western blot analysis of HtrA2 precursor expression in HL-60 (A), Jurkat (B), TT (C), COLO 320DM (D) and Caki-1 (E) 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **HtrA2 (E-3): sc-365594** or **HtrA2 (C-10): sc-271528**, our highly recommended monoclonal alternatives to HtrA2 (H-60).