

HERPUD2 (N-12): sc-164583

BACKGROUND

The endoplasmic reticulum (ER) stress response is triggered by the accumulation of unfolded proteins within the ER and is characterized by three events: the inhibition of translation (to prevent further protein accumulation), the up-regulated expression of polypeptide-folding proteins (known as the unfolded protein response or UPR) and the degradation of misfolded proteins by the ER-associated protein degradation (ERAD) system. Members of the homocysteine-inducible and ER stress-inducible ubiquitin-like domain families are components of the ERAD system and, via their ubiquitin-like domain, are thought to be involved in the destruction of misfolded proteins. HERPUD2 (homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 2) is a 406 amino acid single-pass membrane protein containing one N-terminal ubiquitin-like domain. HERPUD2 is thought to be involved in the unfolded protein response (UPR) pathway.

CHROMOSOMAL LOCATION

Genetic locus: HERPUD2 (human) mapping to 7p14.2; Herpud2 (mouse) mapping to 9 A4.

SOURCE

HERPUD2 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of HERPUD2 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-164583 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.

APPLICATIONS

HERPUD2 (N-12) is recommended for detection of HERPUD2 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).

HERPUD2 (N-12) is also recommended for detection of HERPUD2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for HERPUD2 siRNA (h): sc-89623, HERPUD2 siRNA (m): sc-145947, HERPUD2 shRNA Plasmid (h): sc-89623-SH, HERPUD2 shRNA Plasmid (m): sc-145947-SH, HERPUD2 shRNA (h) Lentiviral Particles: sc-89623-V and HERPUD2 shRNA (m) Lentiviral Particles: sc-145947-V.

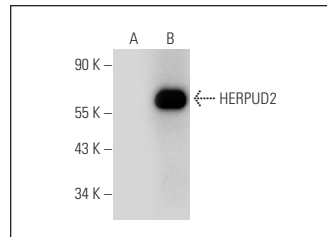
Molecular Weight of HERPUD2: 45 kDa.

Positive Controls: HERPUD2 (m): 293T Lysate: sc-120757.

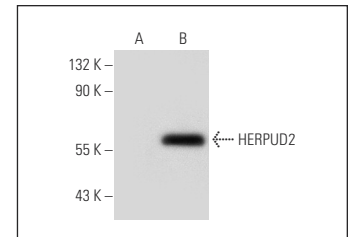
RECOMMENDED SECONDARY REAGENTS

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.

DATA



HERPUD2 (N-12): sc-164583. Western blot analysis of HERPUD2 expression in non-transfected: sc-117752 (A) and mouse HERPUD2 transfected: sc-120757 (B) 293T whole cell lysates.



HERPUD2 (N-12): sc-164583. Western blot analysis of HERPUD2 expression in non-transfected: sc-117752 (A) and mouse HERPUD2 transfected: sc-120757 (B) 293T whole cell lysates.

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.



Try **HERPUD2 (D-12): sc-398583**, our highly recommended monoclonal alternative to HERPUD2 (N-12).