

GULP (H-300): sc-135070

BACKGROUND

GULP (engulfment adaptor PTB domain containing 1) is a 304 amino acid protein encoded by the human gene GULP1. GULP is believed to function as an adapter protein, as it is required for efficient phagocytosis of apoptotic cells. GULP also helps modulate cellular glycosphingolipid and cholesterol transport. It also may play a role in the internalization and endosomal trafficking of various LRP1 ligands, such as PSAP. Increased cytoplasmic levels of GULP are associated with increases in cellular levels of GTP-bound ARF6. Found as a homodimer, GULP, interacts with Clathrin, GDP-bound ARF6, but not with GTP-bound ARF6. It is also found as part of a complex composed of GULP1, CENTB1 and ARF6. GULP is widely expressed and can be detected in macrophages, pancreas, kidney, skeletal muscle, heart, colon, intestine, lung, placenta and ovary.

REFERENCES

1. Liu, Q.A. and Hengartner, M.O. 1998. Candidate adaptor protein CED-6 promotes the engulfment of apoptotic cells in *C. elegans*. *Cell* 93: 961-972.
2. Liu, Q.A. and Hengartner, M.O. 2000. Human CED-6 encodes a functional homologue of the *Caenorhabditis elegans* engulfment protein CED-6. *Curr. Biol.* 9: 1347-1350.

CHROMOSOMAL LOCATION

Genetic locus: GULP1 (human) mapping to 2q32.1; Gulp1 (mouse) mapping to 1 C1.1.

SOURCE

GULP (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of GULP 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

GULP (H-300) is recommended for detection of GULP 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).

GULP (H-300) is also recommended for detection of GULP in additional species, including canine.

Suitable for use as control antibody for GULP siRNA (h): sc-62427, GULP siRNA (m): sc-62428, GULP shRNA Plasmid (h): sc-62427-SH, GULP shRNA Plasmid (m): sc-62428-SH, GULP shRNA (h) Lentiviral Particles: sc-62427-V and GULP shRNA (m) Lentiviral Particles: sc-62428-V.

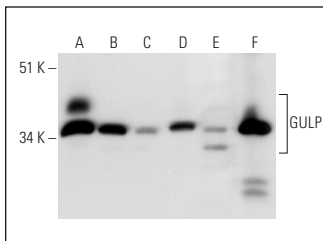
Molecular Weight of GULP: 35 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, NIH/3T3 whole cell lysate: sc-2210 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



GULP (H-300): sc-135070. Western blot analysis of GULP expression in Caki-1 (A), Hep G2 (B), MOLT-4 (C), NIH/3T3 (D) and CCRF-CEM (E) whole cell lysates and human placenta tissue extract (F).

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
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Try **GULP (E-4): sc-374591**, our highly recommended monoclonal alternative to GULP (H-300).