

# AP1GBP1 (S-15): sc-163697

## BACKGROUND

Adaptins are heterotetrameric subunits of adaptors, which are complexes involved in the formation of Clathrin-coated pits for vesicle-mediated endocytosis. Clathrin and its associated heterotetrameric protein complexes make up the main protein components of the coat surrounding the cytoplasmic face of coated vesicles. AP1GBP1 (AP-1 subunit  $\gamma$ -binding protein 1), also known as SYNRG (synergin,  $\gamma$ ), is a 1,314 amino acid peripheral membrane protein that links the  $\gamma$  subunit of the AP-1 Clathrin-adaptor complex to various proteins. Existing as three alternatively spliced isoforms and localizing to both cytoplasm and the Golgi apparatus, AP1GBP1 may be involved in endocytosis and membrane trafficking. AP1GBP1 is encoded by a gene that maps to human chromosome 17 and contains one EH-domain that is used to facilitate interactions with SCAMP1.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SYNRG (human) mapping to 17q12; Synrg (mouse) mapping to 11 C.

## SOURCE

AP1GBP1 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of AP1GBP1 of human origin.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-163697 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

AP1GBP1 (S-15) is recommended for detection of AP1GBP1 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).

AP1GBP1 (S-15) is also recommended for detection of AP1GBP1 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for AP1GBP1 siRNA (h): sc-93752, Ap1gbp1 siRNA (m): sc-141140, AP1GBP1 shRNA Plasmid (h): sc-93752-SH, Ap1gbp1 shRNA Plasmid (m): sc-141140-SH, AP1GBP1 shRNA (h) Lentiviral Particles: sc-93752-V and Ap1gbp1 shRNA (m) Lentiviral Particles: sc-141140-V.

Molecular Weight of AP1GBP1: 141 kDa.

## 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) 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.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

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