

# AP-3 $\sigma$ 2 (N-12): sc-241825

## BACKGROUND

AP-3 $\sigma$ 2, also known as AP3S2 (adaptor-related protein complex 3, sigma 2 subunit), AP-3 complex  $\sigma$ -3B subunit or clathrin-associated/assembly/adaptor protein, small 4, 22-kD, is a 193 amino acid protein that belongs to the adaptor complexes small subunit family and is ubiquitously expressed. Encoded by a gene that maps to human chromosome 15q26.1, AP-3 2 interacts with AGAP1 and may play a role in carotid plaque traits. AP-3 $\sigma$ 2 is part of the adapter protein complex 3 (AP-3), which is a heterotetramer that consists of two large adaptins (AP-3 $\delta$  and AP-3 $\beta$  or  $\beta$ -NAP), one medium adaptin (AP-3 $\mu$  or AP-3 $\mu$ 2) and one small adaptin ( $\sigma$ -type subunit APS1 or AP-3 $\sigma$ 2). Associated with the Golgi region and peripheral structures, AP-3 $\sigma$ 2 assists in vesicle budding from the Golgi membrane and may be highly engaged in lysosome trafficking.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: AP3S2 (human) mapping to 15q26.1; Ap3s2 (mouse) mapping to 7 D3.

## STORAGE

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

## SOURCE

AP-3 $\sigma$ 2 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of AP-3 $\sigma$ 2 of human origin.

## 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-241825 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

AP-3 $\sigma$ 2 (N-12) is recommended for detection of AP-3 $\sigma$ 2 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).

Suitable for use as control antibody for AP-3 $\sigma$ 2 siRNA (m): sc-141136, AP-3 $\sigma$ 2 shRNA Plasmid (m): sc-141136-SH and AP-3 $\sigma$ 2 shRNA (m) Lentiviral Particles: sc-141136-V.

Molecular Weight of AP-3 $\sigma$ 2: 22 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.