

# copine 6 (S-13): sc-164088

## BACKGROUND

Copine 6, also known as CPNE6 or Neuronal-copine, is a 557 amino acid member of the copine family of evolutionarily conserved, soluble, calcium-dependent, membrane-binding proteins. Members of the copine family are involved in signal transduction and membrane trafficking. *Arabidopsis thaliana* mutants lacking copine proteins exhibit reduced cell number and smaller cell size, effects which may be due to a defect in vesicle fusion or transport. Copine 6 contains two N-terminal C2 domains and one C-terminal VWFA (von Willebrand factor A) domain, which is also referred to as the A domain or the core domain. As is characteristic of the copine family, copine 6 functions in membrane trafficking and is capable of binding phospholipids in a calcium-dependent manner. Copine 6 may also play a role in synaptic plasticity.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CPNE6 (human) mapping to 14q11.2; Cpne6 (mouse) mapping to 14 C3.

## SOURCE

copine 6 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of copine 6 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-164088 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

copine 6 (S-13) is recommended for detection of copine 6 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).

copine 6 (S-13) is also recommended for detection of copine 6 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for copine 6 siRNA (h): sc-92399, copine 6 siRNA (m): sc-142507, copine 6 shRNA Plasmid (h): sc-92399-SH, copine 6 shRNA Plasmid (m): sc-142507-SH, copine 6 shRNA (h) Lentiviral Particles: sc-92399-V and copine 6 shRNA (m) Lentiviral Particles: sc-142507-V.

Molecular Weight of copine 6: 62 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.