

# copine 9 (N-14): sc-99855

## BACKGROUND

Copine 9, also known as CPNE9, copine-9, CPN9 or COPN9, is a 503 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 9 contains two N-terminal C2 domains and one C-terminal WWFA (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 9 functions in membrane trafficking and is capable of binding phospholipids in a calcium-dependent manner.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CPNE9 (human) mapping to 3p25.3; Cpne9 (mouse) mapping to 6 E3.

## SOURCE

copine 9 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of copine 9 of human origin.

## RESEARCH USE

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

## 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-99855 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

copine 9 (N-14) is recommended for detection of copine 9 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); non cross-reactive with other copine family members.

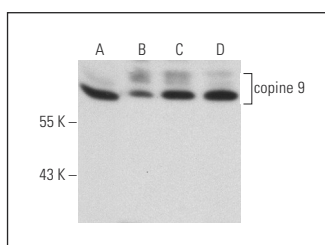
copine 9 (N-14) is also recommended for detection of copine 9 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for copine 9 siRNA (h): sc-78407, copine 9 siRNA (m): sc-142510, copine 9 shRNA Plasmid (h): sc-78407-SH, copine 9 shRNA Plasmid (m): sc-142510-SH, copine 9 shRNA (h) Lentiviral Particles: sc-78407-V and copine 9 shRNA (m) Lentiviral Particles: sc-142510-V.

Molecular Weight of copine 9: 56 kDa.

Positive Controls: BJAB whole cell lysate: sc-2207, K-562 whole cell lysate: sc-2203 or IB4 whole cell lysate: sc-364780.

## DATA



copine 9 (N-14): sc-99855. Western blot analysis of copine 9 expression in BJAB (A), IB4 (B), Raji (C) and K-562 (D) whole cell lysates.

## STORAGE

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


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Try **copine 9 (B-6): sc-376523** or **copine 9 (D-6): sc-376604**, our highly recommended monoclonal alternatives to copine 9 (N-14).