

copine 3 (D-20): sc-87051

BACKGROUND

Copine 3, also known as CPNE3, CPN3 or COPN3, is a 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. Copine 3 is ubiquitously expressed and 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 3 functions in membrane trafficking and is capable of binding phospholipids in a calcium-dependent manner. Differing from other members of the copine family, copine 3 may possess some intrinsic kinase activity. Copine 3 exists as a monomer in the cytosol and undergoes a conformational change upon binding to calcium.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CPNE3 (human) mapping to 8q21.3; Cpne3 (mouse) mapping to 4 A3.

SOURCE

copine 3 (D-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of copine 3 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-87051 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

copine 3 (D-20) is recommended for detection of copine 3 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.

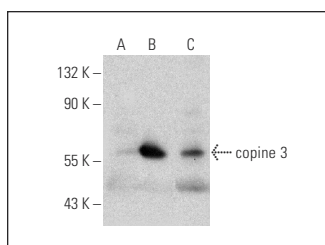
copine 3 (D-20) is also recommended for detection of copine 3 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for copine 3 siRNA (h): sc-77730, copine 3 siRNA (m): sc-142504, copine 3 shRNA Plasmid (h): sc-77730-SH, copine 3 shRNA Plasmid (m): sc-142504-SH, copine 3 shRNA (h) Lentiviral Particles: sc-77730-V and copine 3 shRNA (m) Lentiviral Particles: sc-142504-V.

Molecular Weight of copine 3: 61 kDa.

Positive Controls: SK-BR-3 cell lysate: sc-2218 or copine 3 (h): 293T Lysate: sc-117061.

DATA



copine 3 (D-20): sc-87051. Western blot analysis of copine 3 expression in non-transfected 293T: sc-117752 (A), human copine 3 transfected 293T: sc-117061 (B) and SK-BR-3 (C) 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.

MONOS
Satisfaction
Guaranteed

Try **copine 3 (C-7): sc-390143** or **copine 1/3 (E-8): sc-393249**, our highly recommended monoclonal alternatives to copine 3 (D-20).