10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CPNE6 / N-COPINE Antibody (clone 6.4_1B4)

Mouse Monoclonal Antibody
Catalog # ALS15565

Specification

CPNE6 / N-COPINE Antibody (clone 6.4_1B4) - Product Information

Application	**IHC**
Primary Accession	O95741
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**62kDa KDa**

CPNE6 / N-COPINE Antibody (clone 6.4_1B4) - Additional Information

Gene ID 9362

Other Names
Copine-6, Copine VI, Neuronal-copine, N-copine, CPNE6

Target/Specificity
Human CPNE6 / N-COPINE

Reconstitution & Storage
Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions
CPNE6 / N-COPINE Antibody (clone 6.4_1B4) is for research use only and not for use in diagnostic or therapeutic procedures.

CPNE6 / N-COPINE Antibody (clone 6.4_1B4) - Protein Information

Name CPNE6 (HGNC:2319)

Function
Calcium-dependent phospholipid-binding protein that plays a role in calcium-mediated intracellular processes. Binds phospholipid membranes in a calcium-dependent manner (By similarity). Plays a role in dendrite formation by melanocytes (PubMed:23999003).

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q9Z140}. Cell membrane {ECO:0000250|UniProtKB:Q9Z140}. Endosome {ECO:0000250|UniProtKB:Q9Z140}. Cytoplasmic vesicle, clathrin-coated vesicle {ECO:0000250|UniProtKB:Q9Z140}. Perikaryon {ECO:0000250|UniProtKB:Q9Z140}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q9Z140}. Note=Mainly cytoplasmic in absence of calcium. Associated predominantly with membranes in presence of calcium. Translocates to the cell membrane in a calcium-dependent manner. Colocalized with transferrin in intracellular clathrin-coated membrane vesicles in a

calcium-dependent manner {ECO:0000250|UniProtKB:Q9Z140}

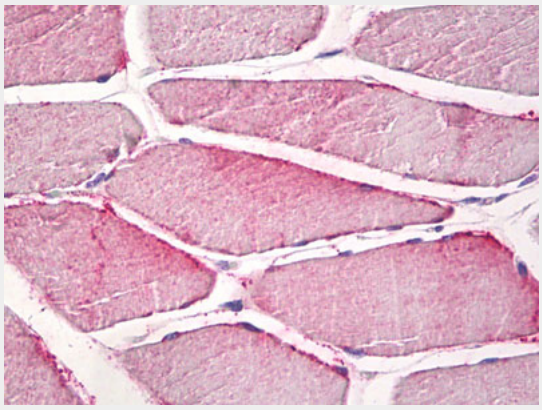
Tissue Location
Widely expressed in the brain (PubMed:9645480, PubMed:10403379, PubMed:12949241). Expressed weakly in the kidney, liver and fetal heart (PubMed:12949241). Expressed in melanocytes (PubMed:23999003).

CPNE6 / N-COPINE Antibody (clone 6.4_1B4) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CPNE6 / N-COPINE Antibody (clone 6.4_1B4) - Images



Anti-CPNE6 / N-COPINE antibody IHC staining of human skeletal muscle.

CPNE6 / N-COPINE Antibody (clone 6.4_1B4) - Background

May function in membrane trafficking. Exhibits calcium- dependent phospholipid binding properties. May have a role in synaptic plasticity (By similarity).

CPNE6 / N-COPINE Antibody (clone 6.4_1B4) - References

Nakayama T.,et al.FEBS Lett. 428:80-84(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
Heilig R.,et al.Nature 421:601-607(2003).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.