

CPNE3 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55388

Specification

CPNE3 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession 075131

Reactivity Rat, Dog, Bovine Host Rabbit Clonality **Polyclonal** Calculated MW 60 KDa

Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human CPNE3

201-300/537 **Epitope Specificity**

Isotype laG **Purity**

0.01M TBS (pH7.4) with 1% BSA, 0.02% Buffer

Proclin300 and 50% Glycerol.

SIMILARITY Belongs to the copine family. Contains 2 C2

domains. Contains 1 VWFA domain. Post-translational modifications **Phosphorylated on serine and threonine**

residues.

This product as supplied is intended for Important Note research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

affinity purified by Protein A

Copine 3 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.

CPNE3 Polyclonal Antibody - Additional Information

Gene ID 8895

Other Names

Copine-3, Copine III {ECO:0000303|PubMed:11041869, ECO:0000312|HGNC:HGNC:2316}, CPNE3 (HGNC:2316)



Target/Specificity Ubiquitous.

Dilution

IHC-P~~N/A<br \> <span class
="dilution_IHC-F">IHC-F~~N/A<br \> <span class
="dilution_IF">IF~~1:50~200<br \> ICC~~N/A<br \> E~~N/A

Storage

Store at -20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $^{\circ}$ C.

CPNE3 Polyclonal Antibody - Protein Information

Name CPNE3 (HGNC:2316)

Function

Calcium-dependent phospholipid-binding protein that plays a role in ERBB2-mediated tumor cell migration in response to growth factor heregulin stimulation (PubMed:20010870).

Cellular Location

Nucleus. Cytoplasm. Cell membrane Cell junction. Cell junction, focal adhesion. Note=Associates to the membrane in a calcium-dependent manner (PubMed:20010870). Translocates to the cell membrane and the nucleus in a calcium- or growth factor heregulin- dependent manner (PubMed:20010870, PubMed:21087455). Colocalizes with the tyrosine phosphorylated ERBB2 form at cell membrane and focal adhesions in a calcium- or growth factor heregulin-dependent manner (PubMed:20010870).

Tissue Location

Expressed in breast and weakly in prostate and ovarian tissues (PubMed:20010870). Expressed in neutrophils (at protein level) (PubMed:12949241). Widely expressed (PubMed:11041869). Expressed in the brain. Expressed in neutrophil precursors from the bone marrow and peripheral blood (PubMed:12949241). Expressed in primary breast tumors and ovarian endometrioid adenocarcinoma (PubMed:20010870)

CPNE3 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CPNE3 Polyclonal Antibody - Images