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CPNE1 Rabbit pAb

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Catalog # AP55386

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q99829
Reactivity	Human, Mouse
Predicted	Rat, Pig, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59059
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CPNE1
Epitope Specificity	1-120/537
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Copine I 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 I 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 I functions in membrane trafficking and is capable of binding phospholipids in a calcium-dependent manner. Copine I is also able to bind liposomes. Via its VWFA domain, copine I directly interacts with the ubiquitin-conjugating enzyme, UBC12, and may play a role in the regulation of TNF alpha-signaling.

Additional Information

Gene ID	8904
Other Names	Copine-1, Chromobindin 17, Copine I {ECO:0000303|PubMed:9430674, ECO:0000312|HGNC:HGNC:2314}, CPNE1 (HGNC:2314), CPN1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °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 °C.

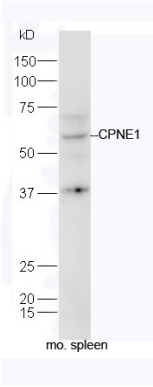
Protein Information

Name	CPNE1 (HGNC:2314)
Synonyms	CPN1
Function	Calcium-dependent phospholipid-binding protein that plays a role in calcium-mediated intracellular processes (PubMed:14674885). Involved in the TNF receptor signaling pathway in a calcium-dependent manner (PubMed:14674885). Exhibits calcium-dependent phospholipid binding properties (PubMed:19539605, PubMed:9430674). Plays a role in neuronal progenitor cell differentiation; induces neurite outgrowth via a AKT-dependent signaling cascade and calcium-independent manner (PubMed:23263657, PubMed:25450385). May recruit target proteins to the cell membrane in a calcium-dependent manner (PubMed:12522145). May function in membrane trafficking (PubMed:9430674). Involved in TNF-induced NF-kappa-B transcriptional repression by inducing endoprotease processing of the transcription factor NF-kappa-B p65/RELA subunit (PubMed:18212740). Also induces endoprotease processing of NF-kappa-B p50/NFKB1, p52/NFKB2, RELB and REL (PubMed:18212740).
Cellular Location	Nucleus. Cytoplasm. Cell membrane Note=Translocates to the cell membrane in a calcium-dependent manner (PubMed:21087455, PubMed:25450385).
Tissue Location	Expressed in neutrophils (at protein level) (PubMed:12949241). Widely expressed. Expressed in the brain. Expressed in neutrophil precursors from bone marrow and peripheral blood (PubMed:12949241).

Background

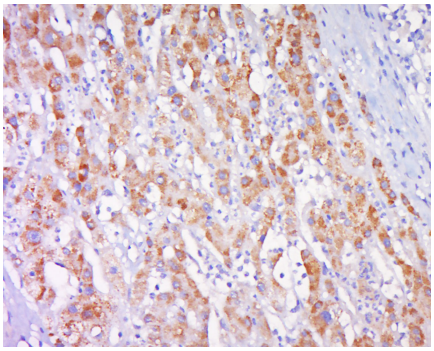
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Images



Protein: spleen(mouse) lysate at 40ug;
Primary: rabbit Anti-CPNE1 (AP55386) at 1:300;
Secondary: HRP conjugated Goat-Anti-rabbit IgG(AP55386-HRP) at 1: 5000;
Predicted band size: 59 kD
Observed band size: 59 kD

Tissue/cell: human liver carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-CPNE1 Polyclonal Antibody, Unconjugated(AP55386) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and



DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.