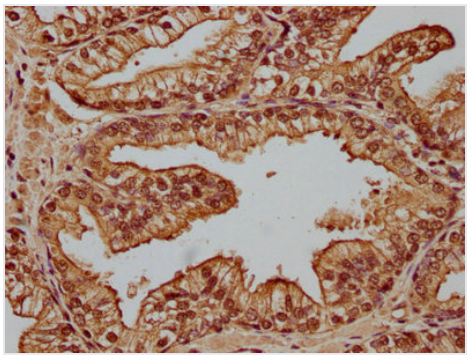
CPNE1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CPNE1, Polyclonal Antibody
Full Product Name	CPNE1 Antibody
Product Gene Name	anti-CPNE1 antibody
Product Synonym Names	Copine-1 (Chromobindin 17) (Copine I); CPNE1; CPN1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Purity/Purification	Antigen Affinity Purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: CPNE1 (MBS7134475) HRP Conjugated Antibody: CPNE1 (MBS7134476)
Matching Pairs	Unconjugated Antibody: CPNE1 (MBS7134475) FITC Conjugated Antibody: CPNE1 (MBS7134477)
Matching Pairs	Unconjugated Antibody: CPNE1 (MBS7134475) Biotin Conjugated Antibody: CPNE1 (MBS7134478)
Molecular Weight	59,059 Da
3D Structure	ModBase 3D Structure for Q99829
Immunogen	Recombinant Human Copine-1 protein (326-537AA)
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-CPNE1 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CPNE1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-CPNE1 antibody	IHC: 1:20-1:200
Related Product Information for anti-CPNE1 antibody	MBS7134475 is an antibody targeting CPNE1. Also known as CPNE1 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CPNE1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-CPNE1 antibody
IHC image of MBS7134475 diluted at 1:100 and staining in paraffin-embedded human prostate cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPNE1. It may not necessarily be applicable to this product.

NCBI GI #	311893345
NCBI GeneID	8904
NCBI Accession #	NP_001185792.1
UniProt Primary Accession #	Q99829
UniProt Secondary Accession #	Q6IBL3; Q9H243; Q9NTZ7; E1P5Q4
UniProt Related Accession #	Q99829
GenBank Nucleotide #	NM_001198863.1
NCBI Official Full Name	copine-1 isoform c
NCBI Official Synonym Full Names	copine 1
NCBI Official Symbol	CPNE1
NCBI Official Synonym Symbols	CPN1; COPN1
UniProt Protein Name	Copine-1
UniProt Synonym Protein Names	Chromobindin 17
Protein Family	Copine
UniProt Gene Name	CPNE1
UniProt Synonym Gene Names	CPN1
NCBI Protein Information	copine-1
NCBI Summary for CPNE1	Calcium-dependent membrane-binding proteins may regulate molecular events at the interface of the cell membrane and cytoplasm. This gene encodes a calcium-dependent protein that also contains two N-terminal type II C2 domains and an integrin A domain-like sequence in the C-terminus. However, the encoded protein does not contain a predicted signal sequence or transmembrane domains. This protein has a broad tissue distribution and it may function in membrane trafficking. This gene and the gene for RNA binding motif protein 12 overlap at map location 20q11.21. Alternate splicing results in multiple transcript variants encoding different proteins. [provided by RefSeq, Aug 2008]

UniProt Comments for CPNE1	Calcium-dependent phospholipid-binding protein that plays a role in calcium-mediated intracellular processes (PubMed:14674885). Involved in the TNF-alpha receptor signaling pathway in a calcium-dependent manner (PubMed:14674885). Exhibits calcium-dependent phospholipid binding properties (PubMed:9430674, PubMed:19539605). 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-alpha-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).
Research Articles on CPNE1	**1.** Results demonstrated that CPNE1 was highly expressed in the osteosarcoma (OS) tissues and cell lines. Its knockdown significantly inhibited cell proliferation, colony formation, invasion and metastasis in OS cell lines.
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