

**CEPT1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10372a**

**Specification**

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**CEPT1 Antibody (N-term) - Product Information**

Application	WB, IHC-P-Leica,E
Primary Accession	<a href="#">O9Y6K0</a>
Other Accession	<a href="#">O7ZYQ3</a> , <a href="#">O6AXM5</a> , <a href="#">O8BGS7</a> , <a href="#">NP_001007795.1</a> , <a href="#">NP_006081.1</a>
Reactivity	Human, Mouse
Predicted	Rat, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	29-57

**CEPT1 Antibody (N-term) - Additional Information**

**Gene ID** 10390

**Other Names**

Choline/ethanolaminephosphotransferase 1, hCEPT1, CEPT1

**Target/Specificity**

This CEPT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 29-57 amino acids from the N-terminal region of human CEPT1.

**Dilution**

WB~~1:2000  
IHC-P-Leica~~1:500

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CEPT1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CEPT1 Antibody (N-term) - Protein Information**

**Name** CEPT1 {ECO:0000303|PubMed:12216837, ECO:0000312|HGNC:HGNC:24289}

**Function** Catalyzes both phosphatidylcholine and phosphatidylethanolamine biosynthesis from CDP-choline and CDP- ethanolamine, respectively (PubMed:[10191259](#), PubMed:[10893425](#), PubMed:[12216837](#), PubMed:[37137909](#)). Involved in protein-dependent process of phospholipid transport to distribute phosphatidyl choline to the luminal surface (PubMed:[10191259](#), PubMed:[10893425](#), PubMed:[12216837](#)). Has a higher cholinephosphotransferase activity than ethanolaminephosphotransferase activity (PubMed:[10191259](#), PubMed:[12216837](#)).

#### Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Nucleus membrane; Multi-pass membrane protein

#### Tissue Location

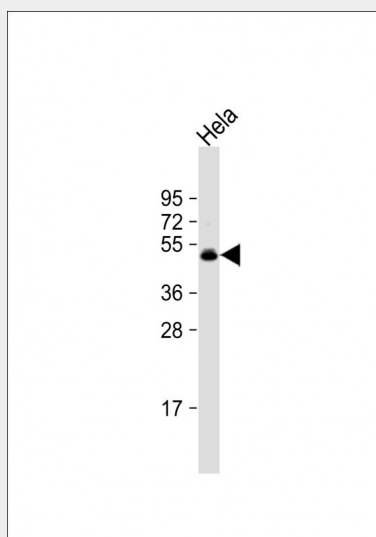
Ubiquitously expressed.

### CEPT1 Antibody (N-term) - Protocols

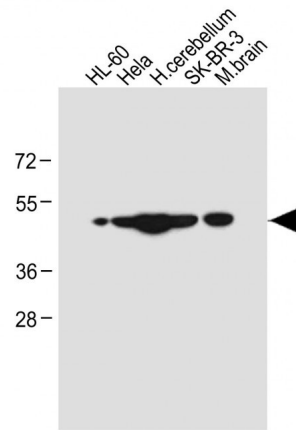
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

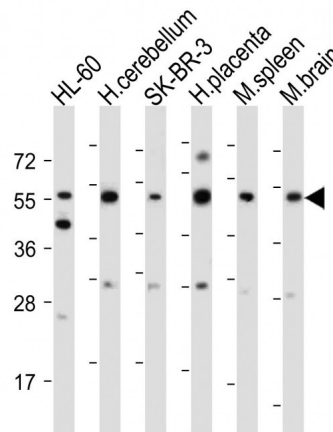
### CEPT1 Antibody (N-term) - Images



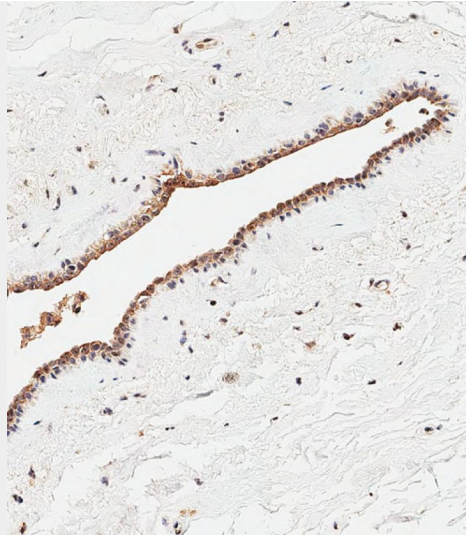
Anti-CEPT1 Antibody (N-term) at 1:1000 dilution + HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



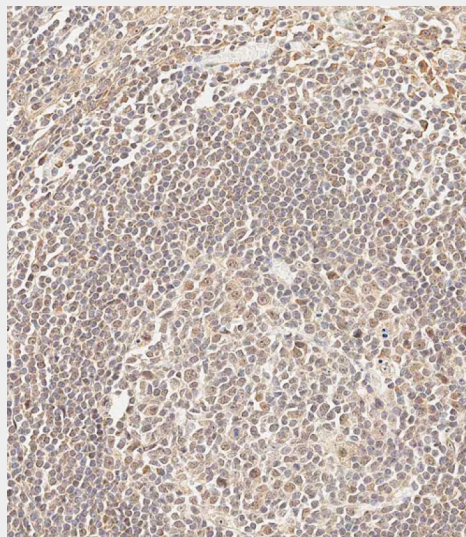
All lanes : Anti-CEPT1 Antibody (N-term) at 1:4000 dilution Lane 1: HL-60 whole cell lysate Lane 2: HeLa whole cell lysate Lane 3: Human cerebellum tissue lysate Lane 4: SK-BR-3 whole cell lysate Lane 5: Mouse brain tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



All lanes : Anti-CEPT1 Antibody (N-term) at 1:2000 dilution Lane 1: HL-60 whole cell lysate Lane 2: Human cerebellum tissue lysate Lane 3: SK-BR-3 whole cell lysate Lane 4: Human placenta tissue lysate Lane 5: Mouse spleen tissue lysate Lane 6: Mouse brain tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Immunohistochemical analysis of paraffin-embedded Human breast tissue using AP10372a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded Human tonsil tissue using AP10372a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

### **CEPT1 Antibody (N-term) - Background**

Cholinephosphotransferase catalyses the final step in the synthesis of phosphatidylcholine by the transfer of phosphocholine from CDP-choline to diacylglycerol. The synthesis of phosphatidylethanolamine by ethanolaminephosphotransferase occurs using an analogous reaction. This gene codes for a choline/ethanolaminephosphotransferase. The protein can synthesize either choline- or ethanolamine- containing phospholipids. Two alternatively spliced transcripts encoding the same isoform have

been identified.

#### **CEPT1 Antibody (N-term) - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :

Lamesch, P., et al. Genomics 89(3):307-315(2007)

Wright, M.M., et al. Lipids 37(7):663-672(2002)

Henneberry, A.L., et al. Biochem. J. 339 (PT 2), 291-298 (1999) :

#### **CEPT1 Antibody (N-term) - Citations**

- [Long-term autophagy is sustained by activation of CCT \$\beta\$ 3 on lipid droplets](#)
- [Nuclear lipid droplets derive from a lipoprotein precursor and regulate phosphatidylcholine synthesis.](#)