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CEPT1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10372a

Specification

CEPT1 Antibody (N-term) - Product Information

Application	**WB, IHC-P, IHC-P-Leica,E**
Primary Accession	Q9Y6K0
Other Accession	Q7ZYQ3, Q6AXM5, Q8BGS7, NP_001007795.1, NP_006081.1
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~~N/A
IHC-P-Leica~~1:500
E~~Use at an assay dependent concentration.

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 lumenal 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

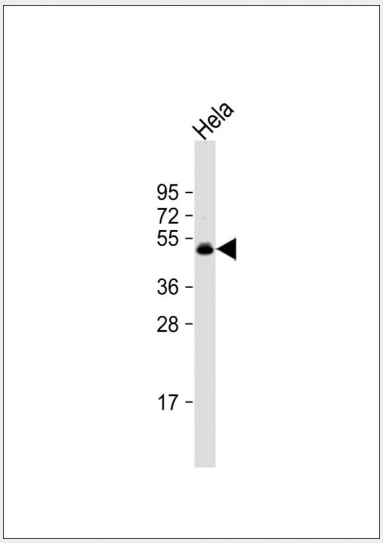
Tissue Location
Ubiquitously expressed.

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 Cytomety
- 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% NFDM/TBST.

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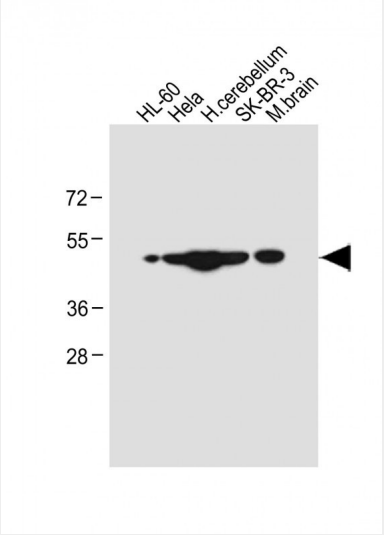
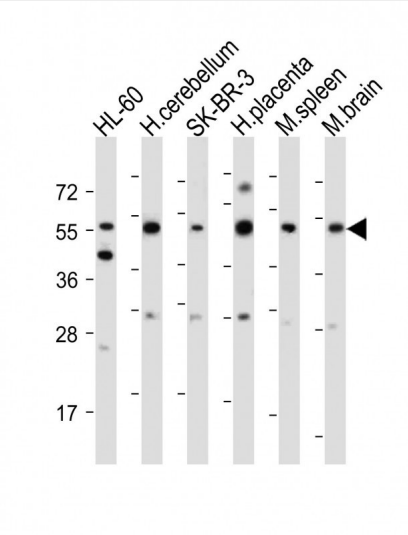
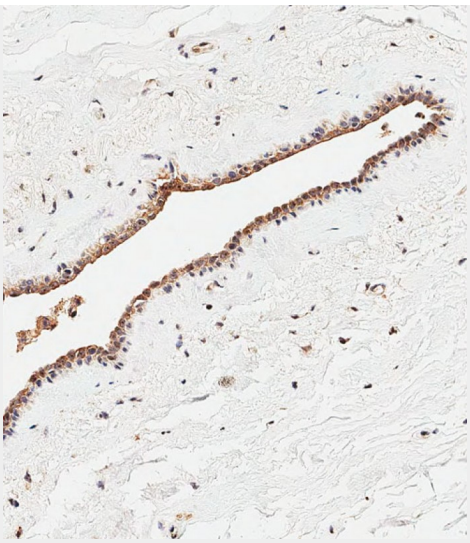


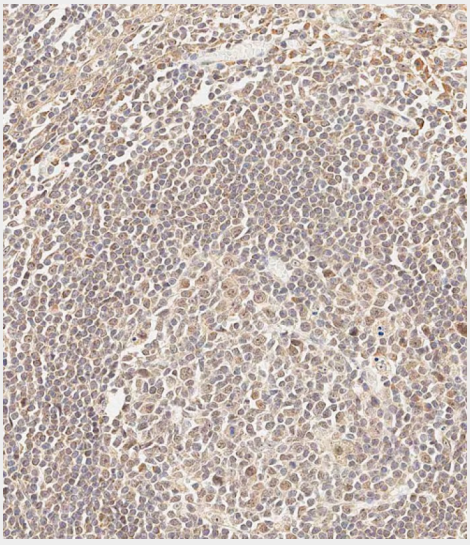
All lanes : Anti-CEPT1 Antibody (N-term) at 1:4000 dilution Lane 1: HL-60 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: Human cerebellum tissue lysate Lane 4: SK-BR-3 whole cell lysate Lane 5: Mouse brain tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), 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 CCTβ3 on lipid droplets
- Nuclear lipid droplets derive from a lipoprotein precursor and regulate phosphatidylcholine synthesis.