

CTMP / THEM4 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS13752**Specification**

CTMP / THEM4 Antibody (Internal) - Product Information

Application	IF, WB
Primary Accession	Q5T1C6
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27kDa KDa

CTMP / THEM4 Antibody (Internal) - Additional Information**Gene ID** 117145**Other Names**

Acyl-coenzyme A thioesterase THEM4, Acyl-CoA thioesterase THEM4, 3.1.2.2, Carboxyl-terminal modulator protein, Thioesterase superfamily member 4, THEM4, CTMP

Target/Specificity

Human THEM4

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

CTMP / THEM4 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

CTMP / THEM4 Antibody (Internal) - Protein Information**Name** THEM4**Synonyms** CTMP**Function**

Has acyl-CoA thioesterase activity towards medium and long- chain (C14 to C18) fatty acyl-CoA substrates, and probably plays a role in mitochondrial fatty acid metabolism. Plays a role in the apoptotic process, possibly via its regulation of AKT1 activity. According to PubMed:11598301, inhibits AKT1 phosphorylation and activity. According to PubMed:17615157, enhances AKT1 activity by favoring its phosphorylation and translocation to plasma membrane.

Cellular Location

Cell membrane. Cell projection, ruffle membrane. Cytoplasm. Mitochondrion. Mitochondrion inner

membrane; Peripheral membrane protein. Mitochondrion intermembrane space. Note=Released from the mitochondria into the cytosol in response to apoptotic stimuli

Tissue Location

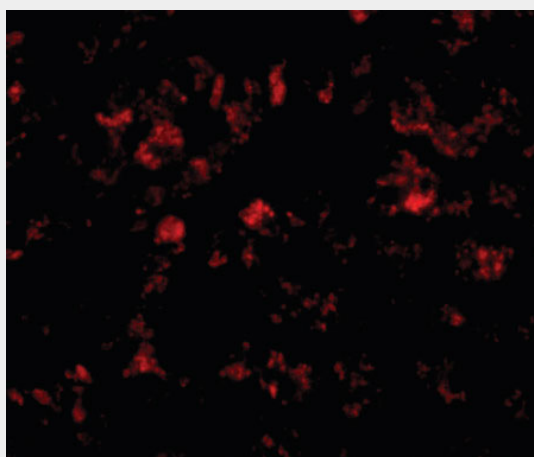
Expressed predominantly in skeletal muscle, testis, uterus, brain and kidney. Down-regulated in glioblastoma or glioma compared to non-neoplastic brain due to promoter hypermethylation

CTMP / THEM4 Antibody (Internal) - Protocols

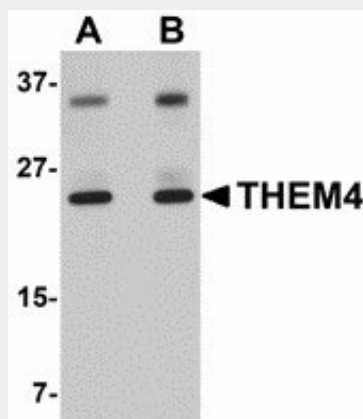
Provided below are standard protocols that you may find useful for product applications.

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

CTMP / THEM4 Antibody (Internal) - Images



Immunofluorescence of THEM4 in human liver tissue with THEM4 antibody at 20 ug/ml.



Western blot of THEM4 in human liver tissue lysate with THEM4 antibody at (A) 1 and (B) 2 ug/ml.

CTMP / THEM4 Antibody (Internal) - Background

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CTMP / THEM4 Antibody (Internal) - References

Maira S.-M.,et al.Science 294:374-380(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Knobbe C.B.,et al.J. Natl. Cancer Inst. 96:483-486(2004).