THEM4 Antibody

Catalog No: #24916

Orders: order@signalwayantibody.com
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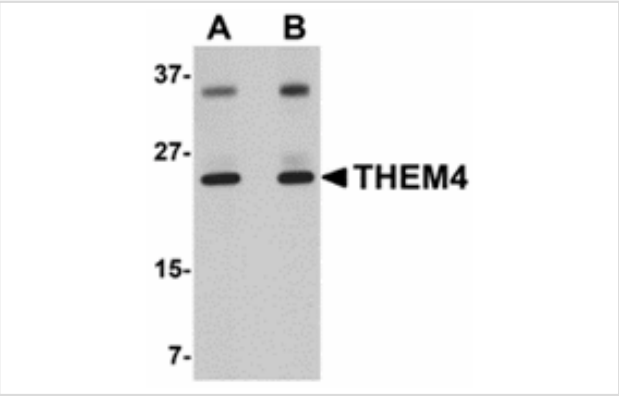
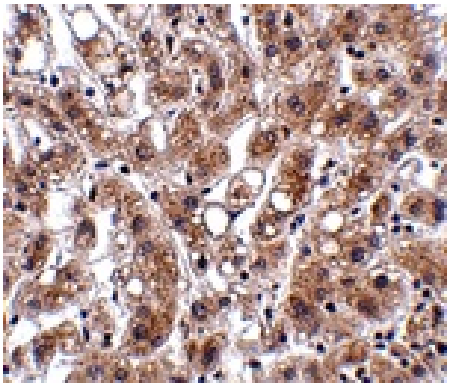
Description

Product Name	THEM4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The additional higher molecular weight bands seen in the immunoblot may represent post-translationally modified TMEM4.
Immunogen Type	Peptide
Immunogen Description	Raised against an 18 amino acid peptide near the center of human THEM4.
Target Name	THEM4
Other Names	Thioesterase superfamily member 4, Carboxy-terminal modulator protein, CTMP
Accession No.	Swiss-Prot:Q5T1C6Gene ID:117145
Uniprot	Q5T1C6
GeneID	117145;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



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



Immunohistochemistry of THEM4 in human liver tissue with THEM4 antibody at 2.5 ug/mL.

Background

THEM4, also known as CTMP, binds specifically to the carboxy-terminal regulatory domain of PKB/Akt at the plasma membrane and acts as a negative regulator, reversing the phenotype of v-Akt-transformed cells. Hypermethylation of the THEM4 promoter and transcriptional downregulation of the gene has been reported in multiple glioblastomas, suggesting that epigenetic regulation of THEM4 may play a role in the progression of this cancer. Bioinformatic analysis, confirmed by in vitro testing, indicates that THEM4 is a broad-range, high activity acyl-CoA thioesterase. Recent reports have also indicated that TMEM4 is a mitochondrial protein whose overexpression is associated with an increase in mitochondrial membrane depolarization and caspase-3 and PARP cleavage, suggesting that THEM4 is involved in the apoptotic program.

Note: This product is for in vitro research use only