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Datasheet for ABIN500905 anti-THEM4 antibody (Center)

2 Images



Overview

Quantity:	0.1 mg
Target:	THEM4
Binding Specificity:	Center
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This THEM4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	THEM4 antibody was raised against an 18 amino acid peptide near the center of human THEM4.
Isotype:	lgG
Specificity:	This antibody detects THEM4 / CTMP.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chropmatography
Target Details	

Target:

THEM4

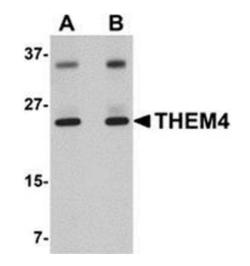
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN500905 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Target Details	
Alternative Name:	THEM4 / CTMP (THEM4 Products)
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. The additional higher molecular weight bands seen in the immunoblot may represent post-translationally modified TMEM4.Synonyms: Carboxyl-terminal modulator protein, Thioesterase superfamily member 4
Gene ID:	117145
NCBI Accession:	NP_444283
Pathways:	Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway
Application Details	
Application Notes:	ELISA. Western blot: 1 - 2 µg/mL. Immunohistochemistry on paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only
Handling Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C

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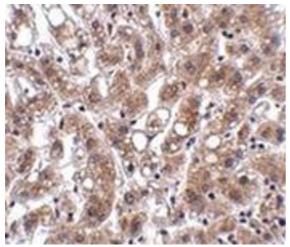
Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.

Images



Western Blotting

Image 1. Western blot analysis of THEM4 in human liver tissue lysate with this product at (A) 1 and (B) $2 \mu g/ml$.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of THEM4 in human liver tissue with this product at $2.5 \,\mu$ g/ml.