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## Datasheet for ABIN6991139 **anti-THEM4 antibody (AA 60-110)**

### Overview

Quantity:	0.1 mg
Target:	THEM4
Binding Specificity:	AA 60-110
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This THEM4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Immunogen:	THEM4 antibody was raised against an 18 amino acid synthetic peptide near the center of human THEM4. The immunogen is located within amino acids 60 - 110 of THEM4.
Isotype:	IgG
Specificity:	The additional higher molecular weight bands seen in the immunoblot may represent post-translationally modified TMEM4.
Purification:	THEM4 Antibody is affinity chromatography purified via peptide column.

### Target Details

Target:	THEM4
Alternative Name:	THEM4 ( <a href="#">THEM4 Products</a> )

## Target Details

Background:	THEM4 Antibody: 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.
Gene ID:	117145
NCBI Accession:	<a href="#">NP_444283</a>
UniProt:	<a href="#">Q5T1C6</a>
Pathways:	<a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a>

## Application Details

Application Notes:	THEM4 antibody can be used for detection of THEM4 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.  Antibody validated: Western Blot in human samples, Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	THEM4 Antibody is supplied in 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

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Storage:	-20 °C, 4 °C
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Storage Comment:	THEM4 antibody can be stored at 4°C for three months and -20°C, stable for up to 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.
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