

THEMIS Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54827

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q8N1K5
Reactivity	Rat, Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73452
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from Human THEMIS
Epitope Specificity	301-400/641
Isotype	IgG
Purity	affinity purified by Protein A

Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus.
SIMILARITY	Belongs to the themis family.
Post-translational modifications	Phosphorylated on Tyr residues quickly after TCR stimulation.
Important Note	

Background Descriptions	<p>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.</p> <p>Themis is a 641 amino acid nuclear and cytoplasmic protein that exists as three alternatively spliced isoforms. Themis belongs to the themis family and interacts with PLC γ1, Emt and GRB2. Acting through T-cell antigen receptor (TCR) signaling and through the regulation of calcium influx and phosphorylation of ERK 1, Themis plays a central role in late thymocyte development by controlling both positive and negative T-cell selection. Themis is phosphorylated on Tyr residues quickly after TCR stimulation. The gene that encodes Themis maps to human chromosome 6q22.33. With 170 million base pairs, chromosome 6 comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.</p>
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Additional Information

Gene ID	387357
Other Names	Protein THEMIS, Thymocyte-expressed molecule involved in selection, THEMIS, C6orf190, C6orf207
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-50

0,ELISA=1:5000-10000

Format

0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name

THEMIS

Synonyms

C6orf190, C6orf207

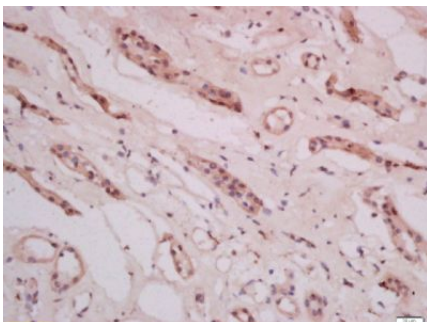
Function

Plays a central role in late thymocyte development by controlling both positive and negative T-cell selection. Required to sustain and/or integrate signals required for proper lineage commitment and maturation of T-cells. Regulates T-cell development through T-cell antigen receptor (TCR) signaling and in particular through the regulation of calcium influx and phosphorylation of Erk.

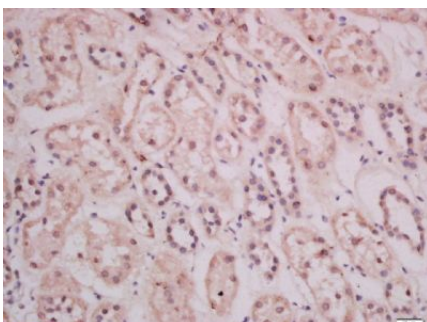
Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q8BGW0}. Nucleus {ECO:0000250|UniProtKB:Q8BGW0}

Images



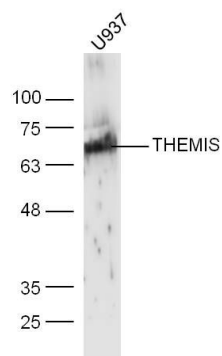
Tissue/cell: human kidney tissue; 4%
Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-THEMIS Polyclonal Antibody, Unconjugated(AP54827) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human kidney tissue; 4%
Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
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Sample:

U937 Cell (Human) Lysate at 30 ug
Primary: Anti-THEMIS (AP54827) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution



Predicted band size: 73 kD
Observed band size: 73 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.