CKMT1A Polyclonal ANTIBODY
Catalog Number: 15346-1-AP

Basic Information
Catalog Number: 15346-1-AP
Size: 57 μg/150 μl
Source: Rabbit
IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG7583

Recommended Dilutions:
WB 1:500-1:3000
IP 0.5-4.0 μg for IP and 1:100-1:2000 for WB
IHC 1:50-1:500

GenBank Accession Number:
BC019506
GenIDs (NCBI):
548596

Full Name: creatine kinase, mitochondrial 1A
Calculated MW: 47 kDa
Observed MW: 40-50 kDa

Applications
Tested Applications: IHC, IP, WB, ELISA
Cited Applications: IHC, WB
Species Specificity: human, mouse
Cited Species: human, mouse

Note: suggested antigen retrieval with TE buffer pH 9.5; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information
CKMT1A (Creatine kinase U-type, mitochondrial) is also named as CKMT and belongs to the ATP:guanido phosphotransferase family. CKMT1A is a nearly identical copy of the CKMT1B gene. Both genes encode an identical CKMT1 protein (PMID:17098888). It reversibly catalyzes the transfer of phosphate between ATP and various phosphagens. It has 2 isoforms produced by alternative splicing with the molecular weight of 47 kDa and 50 kDa.

Notable Publications

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<td>30003646</td>
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<td>Kenichiro Enooku</td>
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<td>Svensson Per-Arne PA</td>
<td>21125211</td>
<td>Int J Mol Med</td>
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Storage
Store at -20℃. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20℃ storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or (312) 405-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
A549 cells (shcontrol and shRNA of CKMT1A) were subjected to SDS PAGE followed by western blot with 15346-1-AP (CKMT1A antibody) at dilution of 1:30

rat heart tissue were subjected to SDS PAGE followed by western blot with 15346-1-AP (CKMT1A Antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours

WB result of CKMT1A antibody (15346-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CKMT1A transfected HEK-293 cells

Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 15346-1-AP (CKMT1A antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 15346-1-AP (CKMT1A antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

IP Result of anti-CKMT1A (IP:15346-1-AP, 4ug; Detection:15346-1-AP 1:1000) with mouse heart tissue lysate 3200ug.