For Research Use Only

GOT2 Polyclonal antibody

Catalog Number:14800-1-AP Featured Product 30 Publications

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Basic Information

Catalog Number:
14800-1-AP

Size:
150ul , Concentration: 550 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6514

GenBank Accession Number:
BC000525

GeneID (NCBI):
2806

UNIPROT ID:
P00505

Full Name:
glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2)

Calculated MW:
47 kDa

Observed MW:
43-45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:16000
IHC 1:50-1:500
IF 1:20-1:200

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Cited Applications:
WB,IP,IHC,CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A431 cells, HepG2 cells, mouse heart tissue, mouse spleen tissue, HEK-293 cells, mouse brain, rat brain

IHC : human breast cancer tissue, human skin tissue, rat brain tissue, human liver tissue, rat heart tissue, human kidney tissue

IF : MCF-7 cells,

Background Information

GOT2 encodes the mitochondrial glutamate oxaloacetate transaminase and plays an essential role in the intracellular NAD(H) redox balance. Upregulation of GOT2 has been reported in various cancers, including breast cancer and pancreatic cancer. GOT2 mutation leads to autosomal recessive neurometabolic disorder.

Notable Publications

Author	Pubmed ID	Journal	Application
Yajuan Zhao	34557495	Front Cell Dev Biol	IHC
Shizhen Qin	27575953	J Proteome Res	WB
Rongfu Tu	34601505	Oncogene	WB

Storage

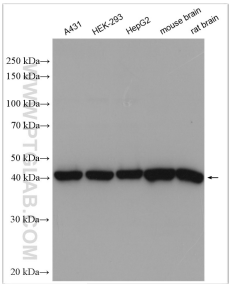
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

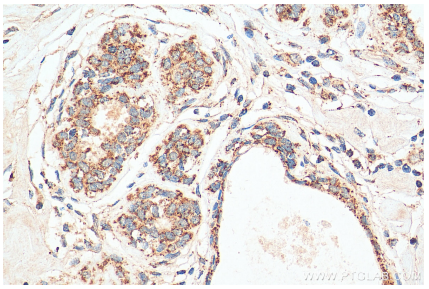
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

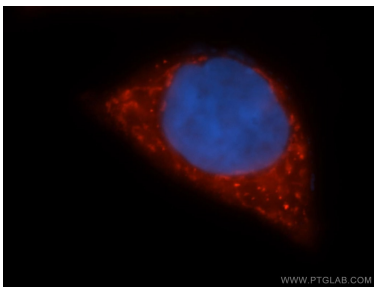
Selected Validation Data



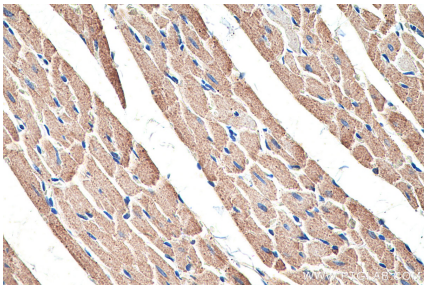
Various lysates were subjected to SDS PAGE followed by western blot with 14800-1-AP (GOT2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



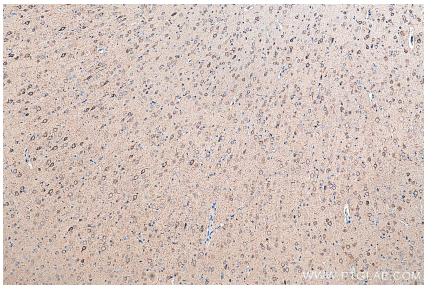
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14800-1-AP (GOT2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



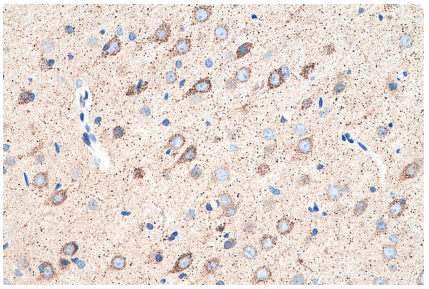
Immunofluorescent analysis of MCF-7 cells, using GOT2 antibody 14800-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



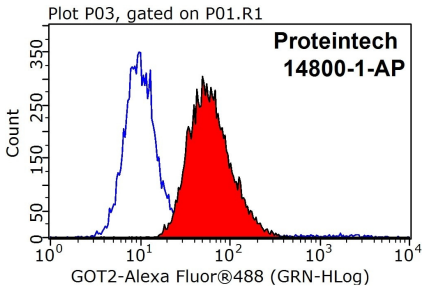
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 14800-1-AP (GOT2 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 14800-1-AP (GOT2 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 14800-1-AP (GOT2 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HEK-293 cells were stained with 0.2ug GOT2 antibody (14800-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.