For Research Use Only

DHODH Polyclonal antibody

Catalog Number:14877-1-AP Featured Product 52 Publications

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Basic Information

Catalog Number:
14877-1-AP

Size:
500 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6649

GenBank Accession Number:
BC065245

GeneID (NCBI):
1723

UNIPROT ID:
Q02127

Full Name:
dihydroorotate dehydrogenase

Calculated MW:
43 kDa

Observed MW:
43 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications:
IF-P, IHC, IP, WB, ELISA

Cited Applications:
WB, FC, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, goat, 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 : A2780 cells, MCF-7 cells, SKOV-3 cells, mouse heart tissue, mouse ovary tissue, mouse spleen tissue, rat spleen tissue

IP : mouse spleen tissue,

IHC : human breast cancer tissue,

IF : mouse kidney tissue,

Background Information

DHODH(Dihydroorotate dehydrogenase) catalyzes the fourth enzymatic step in de novo pyrimidine biosynthesis.DHO dehydrogenase is a monofunctional protein which, in most eukaryotic organisms, is located on the outer surface of the inner mitochondrial membrane.Defects in DHODH are the cause of postaxial acrofacial dysostosis (POADS).

Notable Publications

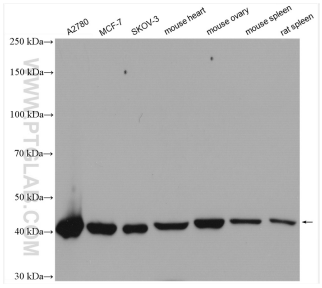
Author	Pubmed ID	Journal	Application
William D Gwynne	36368321	Cancer Cell	IHC
Liangxian Cao	30352802	Mol Cancer Ther	WB
Naiara Santana-Codina	30470748	Nat Commun	WB

Storage

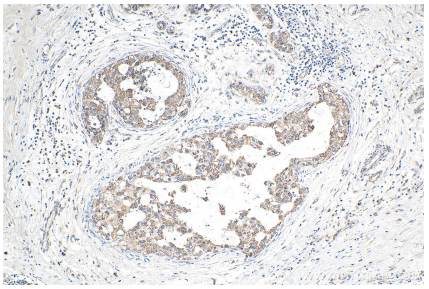
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

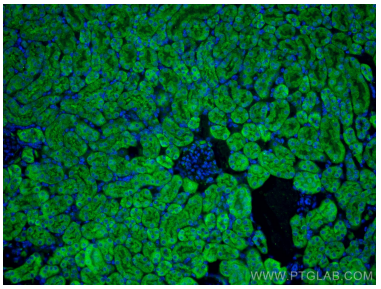
Selected Validation Data



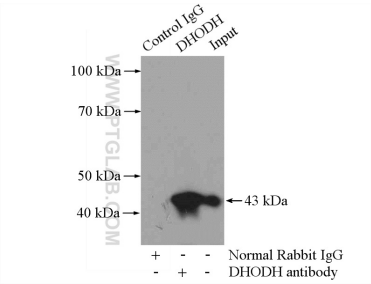
Various lysates were subjected to SDS PAGE followed by western blot with 14877-1-AP (DHODH antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



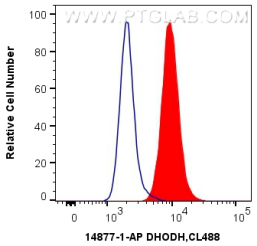
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14877-1-AP (DHODH antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using DHODH antibody (14877-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-DHODH (IP:14877-1-AP, 4ug; Detection:14877-1-AP 1:1000) with mouse spleen tissue lysate 4000ug.



1X10^6 HEK-293T cells were intracellularly stained with 0.2 ug Anti-Human DHODH (14877-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).