For Research Use Only

HSD17B4 Polyclonal antibody

Catalog Number:15116-1-AP Featured Product 16 Publications

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Basic Information

Catalog Number:
15116-1-AP

Concentration:
500 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7165

GenBank Accession Number:
BC003098

GeneID (NCBI):
3295

UNIPROT ID:
P51659

Full Name:
hydroxysteroid (17-beta) dehydrogenase 4

Calculated MW:
80 kDa

Observed MW:
80 kDa, 45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:10000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:200-1:800
IF/ICC 1:10-1:100

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, sheep

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 : mouse liver tissue, mouse brain tissue, mouse heart tissue, HepG2 cells, rat liver tissue

IP : mouse brain tissue,

IHC : human prostate cancer tissue, mouse liver tissue, mouse heart tissue

IF/ICC : Hela cells,

Background Information

HSD17B4 (17-beta-hydroxysteroid dehydrogenase 4) is also named as Peroxisomal multifunctional enzyme type 2, D-bifuntional protein or multifunctional protein 2. It codes for a 80 kDa enzyme containing three distinct functional domains and is localized in peroxisomes. It is a bifunctional enzyme acting on the peroxisomal beta-oxidation pathway for fatty acids and catalyzing the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-brancked-chian fatty acids. After peroxisomal import, the full-length protein is proteolytically cleaved to yield a 35-kDa dehydrogenase subunit and a 45-kDa hydratase subunit containing the hydratase and SCP domains (PMID: 28868548, 24602372).

Notable Publications

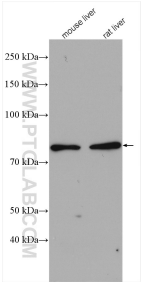
Author	Pubmed ID	Journal	Application
Pablo Ranea-Robles	34651140	Kidney360	WB
Celien Lismont	31129117	Biochim Biophys Acta Biomembr	WB
Petruta L Morvay	28370438	Cell Biochem Funct	WB

Storage

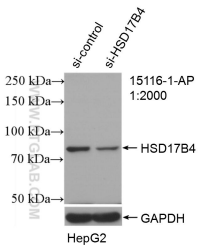
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

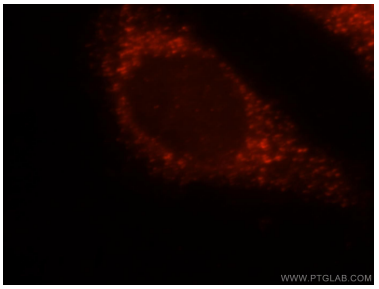
Selected Validation Data



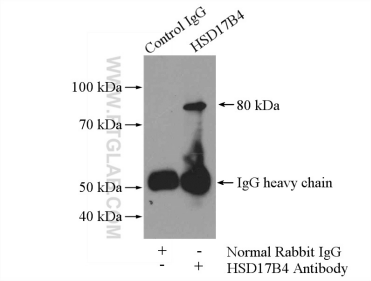
Various lysates were subjected to SDS PAGE followed by western blot with 15116-1-AP (HSD17B4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



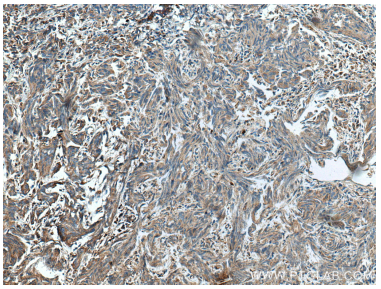
WB result of HSD17B4 antibody (15116-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HSD17B4 transfected HepG2 cells.



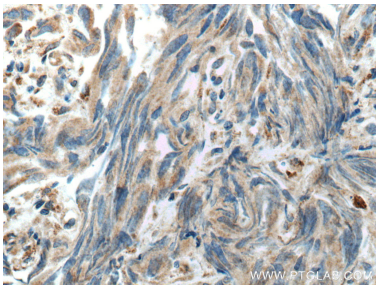
Immunofluorescent analysis of Hela cells, using HSD17B4 antibody 15116-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-HSD17B4 (IP:15116-1-AP, 4ug; Detection:15116-1-AP 1:500) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 15116-1-AP (HSD17B4 antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 15116-1-AP (HSD17B4 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).