

For Research Use Only

ERAB Polyclonal antibody

Catalog Number: 10648-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

10648-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1020

GenBank Accession Number:

BC008708

GeneID (NCBI):

3028

UNIPROT ID:

Q99714

Full Name:

hydroxysteroid (17-beta)
dehydrogenase 10

Calculated MW:

26 kDa

Observed MW:

27 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:3000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total
protein lysate

IHC: 1:20-1:200

IF/ICC: 1:50-1:500

FC (Intra): 0.25 ug per 10⁶ cells in a
100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

**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 : HeLa cells, human brain tissue, HEK-293 cells,
A2780 cells, mouse liver tissue

IP : HeLa cells,

IHC : human breast cancer tissue, mouse brain tissue

IF/ICC : MCF-7 cells,

FC (Intra) : MCF-7 cells,

Background Information

HSD17B10 (3-hydroxyacyl-CoA dehydrogenase type-2) is a multifunctional mitochondrial enzyme that acts on a wide spectrum of substrates, including neuroactive steroids, alcohols, leucine, and fatty acids, with a preference for short-chain methyl-branched acyl-CoAs (PMID:15860413). It has 2 isoforms produced by alternative splicing. Defects in HSD17B10 are the cause of 2-methyl-3-hydroxybutyryl-CoA dehydrogenase deficiency (MHBD deficiency) and mental retardation syndromic X-linked type 10 (MRXS10).

Notable Publications

Author	Pubmed ID	Journal	Application
Min Liang	35567411	Hum Mol Genet	WB
Takuya Karasawa	33456007	J Oleo Sci	WB
Oliver Rackham	27498866	Cell Rep	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

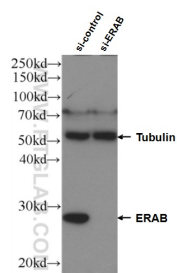
T: 4006900926

E: Proteintech-CN@ptglab.com

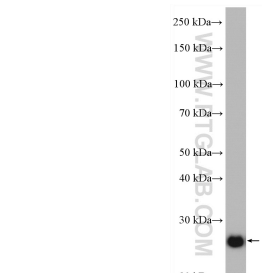
W: ptgcn.com

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

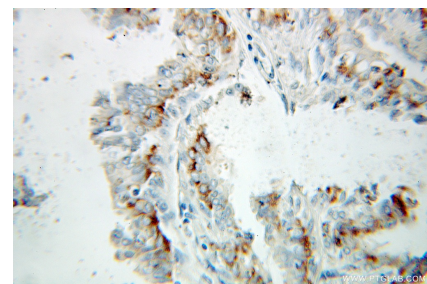
Selected Validation Data



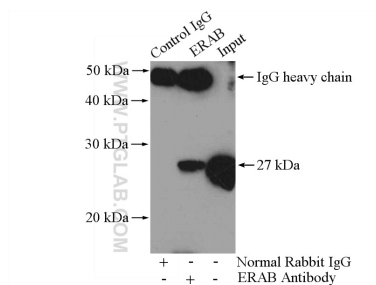
WB result of ERAB antibody (10648-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ERAB transfected HEK-293 cells.



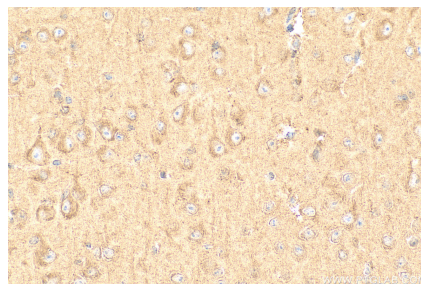
HeLa cells were subjected to SDS PAGE followed by western blot with 10648-1-AP (ERAB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



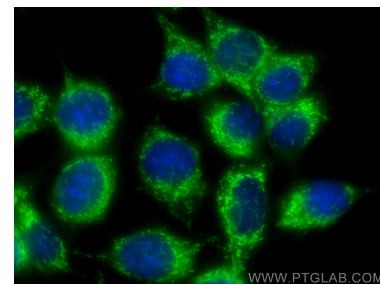
Immunohistochemical analysis of paraffin-embedded human breast cancer using 10648-1-AP (ERAB antibody) at dilution of 1:100 (under 10x lens).



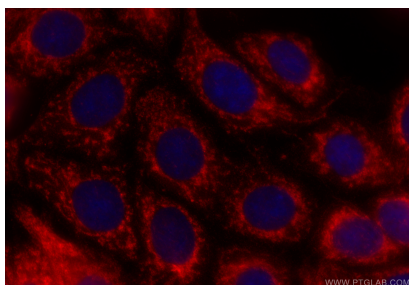
IP result of anti-ERAB (IP:10648-1-AP, 4ug; Detection:10648-1-AP 1:500) with HeLa cells lysate 1200ug.



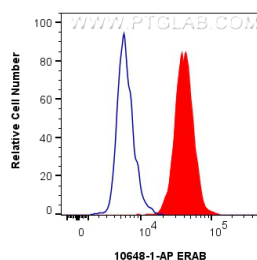
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10648-1-AP (ERAB antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using ERAB antibody (10648-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using ERAB antibody (10648-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).



1x10⁶ MCF-7 cells were intracellularly stained with 0.25 ug ERAB Polyclonal antibody (10648-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.