

For Research Use Only

# ERAB Polyclonal antibody

Catalog Number: 10648-1-AP

Featured Product

5 Publications



## Basic Information

<b>Catalog Number:</b> 10648-1-AP	<b>GenBank Accession Number:</b> BC008708	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3028	<b>Recommended Dilutions:</b> 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
<b>Source:</b> Rabbit	<b>Full Name:</b> hydroxysteroid (17-beta) dehydrogenase 10	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 26 kDa	
<b>Immunogen Catalog Number:</b> AG1020	<b>Observed MW:</b> 27 kDa	

## Applications

**Tested Applications:**  
FC, IHC, IP, WB, ELISA

**Cited Applications:**  
WB

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

**IP :** HeLa cells,

**IHC :** human breast cancer tissue,

## 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

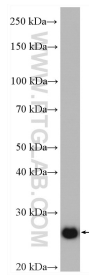
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

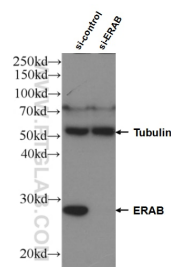
E: proteintech@ptglab.com  
W: ptglab.com

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

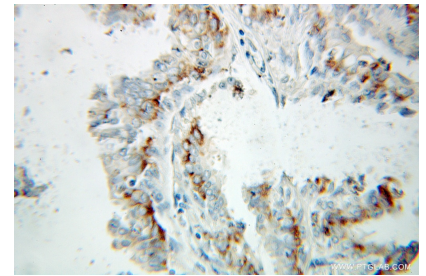
## Selected Validation Data



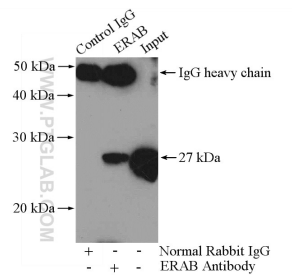
HeLa cells were subjected to SDS PAGE followed by western blot with 10648-1-AP (ERAB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



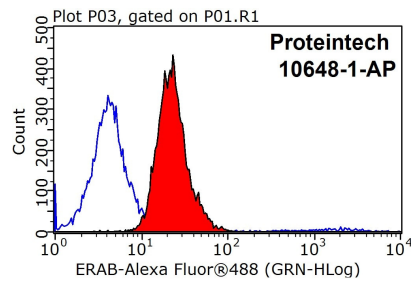
WB result of ERAB antibody (10648-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ERAB transfected HEK-293 cells.



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.



1X10<sup>6</sup> MCF-7 cells were stained with 0.2ug ERAB antibody (10648-1-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.