

For Research Use Only

# HSD17B12 Polyclonal antibody

Catalog Number: 27461-1-AP



## Basic Information

### Catalog Number:

27461-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG26540

### GenBank Accession Number:

BC012043

### GeneID (NCBI):

51144

### UNIPROT ID:

Q53GQ0

### Full Name:

hydroxysteroid (17-beta) dehydrogenase 12

### Calculated MW:

312 aa, 34 kDa

### Observed MW:

30 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IF/ICC, ELISA

### Species Specificity:

human

### Positive Controls:

WB : Caco-2 cells, HCT 116 cells, HEK-293 cells, HT-29 cells, U-251 cells

IF/ICC : HepG2 cells,

## Background Information

Hydroxysteroid 17-beta dehydrogenase 12 (HSD17B12, also known as KAR and SDR12C1) is a key enzyme of steroid metabolism pathway<sup>19</sup> and is the human homolog of the yeast 3-ketoacyl-CoA reductase that catalyzes the second reaction in each VLCFA elongation cycle (PMID: 16166196; 12482854). It also acts as a drug-metabolizing enzyme (PMID: 36724833). HSD17B12 deficiency in embryonic stem cells reduced the production of arachidonic acid, a precursor of prostaglandins (PMID: 20130115).

## 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

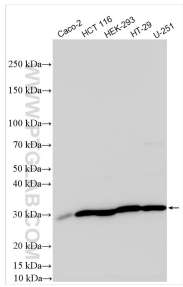
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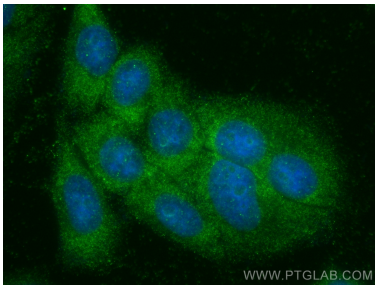
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27461-1-AP (HSD17B12 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using HSD17B12 antibody (27461-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).