

For Research Use Only

# CBR3 Polyclonal antibody

Catalog Number: 15619-1-AP

4 Publications



## Basic Information

### Catalog Number:

15619-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8039

### GenBank Accession Number:

BC002812

### GeneID (NCBI):

874

### UNIPROT ID:

O75828

### Full Name:

carbonyl reductase 3

### Calculated MW:

31 kDa

### Observed MW:

31 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:12000

IHC 1:20-1:200

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human

### 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:** A549 cells, Jurkat cells, HeLa cells HepG2 cells Jurkat cells

**IHC:** human colon cancer tissue,

**IF/ICC:** HeLa cells,

## Background Information

CBR3 (Carbonyl reductase [NADPH] 3), which belongs to the short-chain dehydrogenases/reductases (SDR) family, has low NADPH-dependent oxidoreductase activity towards 4-benzoylpyridine and menadione (in vitro). The gene encodes a 31 kDa protein that can catalyze the reduction of many endogenous and xenobiotic carbonyl compounds, including steroids and prostaglandins. The deduced 277-amino acid CBR3 protein is 84% similar to the CBR1 protein (PMID:9740676).

## Notable Publications

Author	Pubmed ID	Journal	Application
Maya A Olshina	31903784	Antioxid Redox Signal	WB
Bo Yang	39328210	World Allergy Organ J	WB, IHC
Fanindra Kumar Deshmukh	37253751	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

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

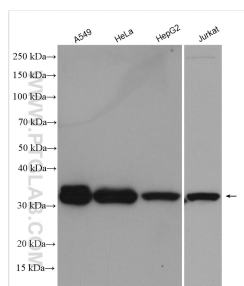
For technical support and original validation data for this product please contact:

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

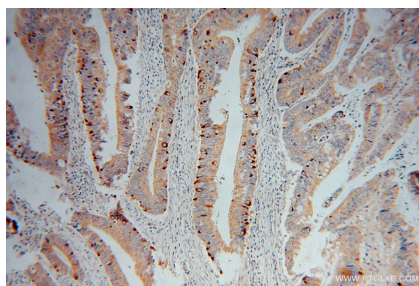
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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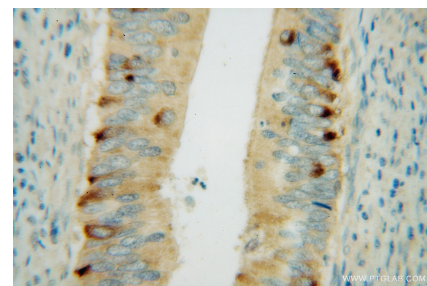
## Selected Validation Data



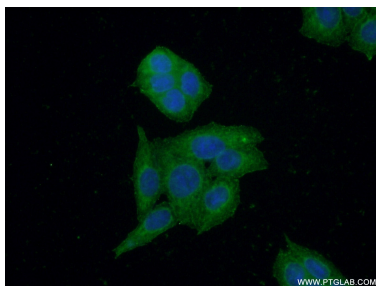
Various lysates were subjected to SDS PAGE followed by western blot with 15619-1-AP (CBR3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 15619-1-AP (CBR3 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 15619-1-AP (CBR3 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 15619-1-AP (CBR3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).