For Research Use Only

CBR3 Polyclonal antibody

Catalog Number:15619-1-AP 3 Publications

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Basic Information

Catalog Number:
15619-1-AP

Size:
150ul , Concentration: 600 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG8039

GenBank Accession Number:
BC002812

GeneID (NCBI):
874

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 1:50-1:500

Applications

Tested Applications:
IF, IHC, WB, ELISA

Cited Applications:
WB

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 : 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
Fanindra Kumar Deshmukh	37253751	Nat Commun	WB
Carlson Bradley A BA	22791808	Carcinogenesis	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)
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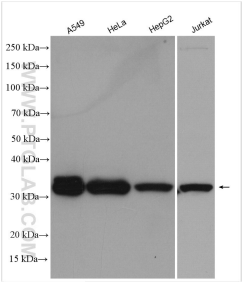
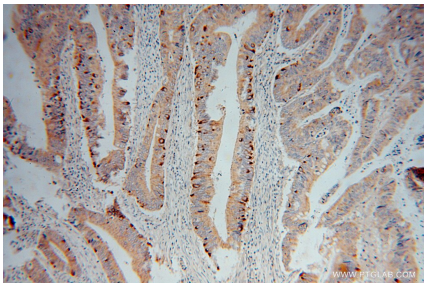
W: ptglab.com

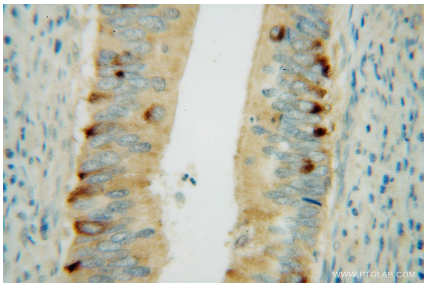
Selected Validation Data



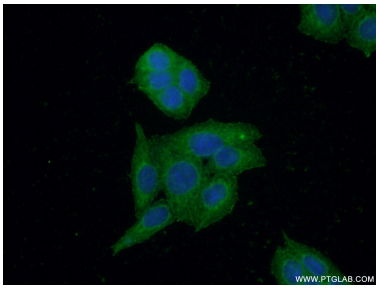
Various lysates were subjected to SDS PAGE followed by western blot with 15619-1-AP (CBR3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



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 AffiniPure Goat Anti-Rabbit IgG(H+L).