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CBR3 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12881B

Specification

CBR3 Antibody (C-term) - Product Information

Application	**FC, WB,E**
Primary Accession	O75828
Other Accession	NP_001227.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**30850**
Antigen Region	**195-224**

CBR3 Antibody (C-term) - Additional Information

Gene ID 874

Other Names
Carbonyl reductase [NADPH] 3, NADPH-dependent carbonyl reductase 3, CBR3

Target/Specificity
This CBR3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 195-224 amino acids from the C-terminal region of human CBR3.

Dilution
FC~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CBR3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CBR3 Antibody (C-term) - Protein Information

Name CBR3 (HGNC:1549)

Function Catalyzes the NADPH-dependent reduction of carbonyl compounds to their corresponding alcohols (PubMed:18493841). Has low NADPH- dependent oxidoreductase activity. Acts on several orthoquinones, acts as well on non-quinone compounds, such as isatin or on the anticancer drug oracin (PubMed:15537833, PubMed:18493841, PubMed:19841672). Best substrates for CBR3 is 1,2- naphthoquinone, hence could play a role in protection against cytotoxicity of exogenous quinones (PubMed:19841672). Exerts activity toward ortho-quinones but not paraquinones. No endogenous substrate for CBR3 except isatin has been identified (PubMed:19841672).

Cellular Location
Cytoplasm.

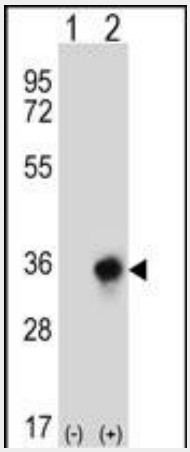
Tissue Location
Detected in ovary, pancreas, intestine, colon, kidney, brain, thymus, lung, heart, liver, spleen, leukocyte, prostate and testis.

CBR3 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CBR3 Antibody (C-term) - Images



Western blot analysis of CBR3 (arrow) using rabbit polyclonal CBR3 Antibody (C-term) (Cat. #AP12881b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CBR3 gene.

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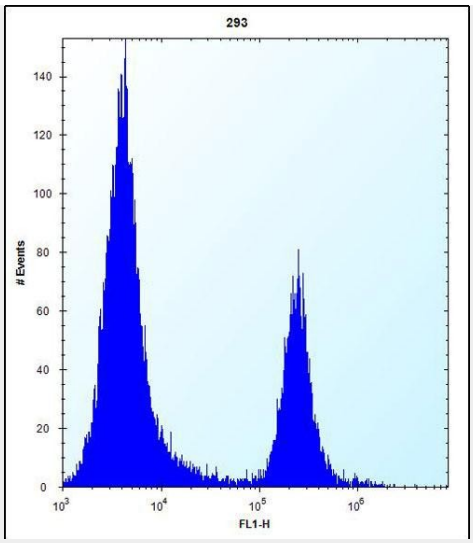

CBR3 Antibody (C-term) (Cat. #AP12881b) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CBR3 Antibody (C-term) - Background

Carbonyl reductase 3 catalyzes the reduction of a large number of biologically and pharmacologically active carbonyl compounds to their corresponding alcohols. The enzyme is classified as a monomeric NADPH-dependent oxidoreductase. CBR3 contains three exons spanning 11.2 kilobases and is closely linked to another carbonyl reductase gene - CBR1.

CBR3 Antibody (C-term) - References

Guey, L.T., et al. Eur. Urol. 57(2):283-292(2010)
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Zhang, J., et al. Pharm. Res. 26(9):2209-2215(2009)
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Pilka, E.S., et al. PLoS ONE 4 (10), E7113 (2009) :