

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

Specification

CBR3 Antibody (C-term) - Product Information

Application	WB, FC,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

WB~~1:1000

FC~~1:10~50

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

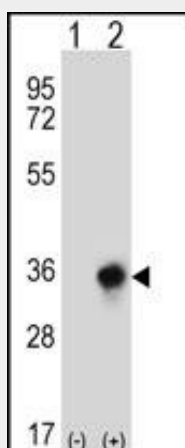
Detected in ovary, pancreas, intestine, colon, kidney, brain, thymus, lung, heart, liver, spleen, leukocyte, prostate and testis.

CBR3 Antibody (C-term) - Protocols

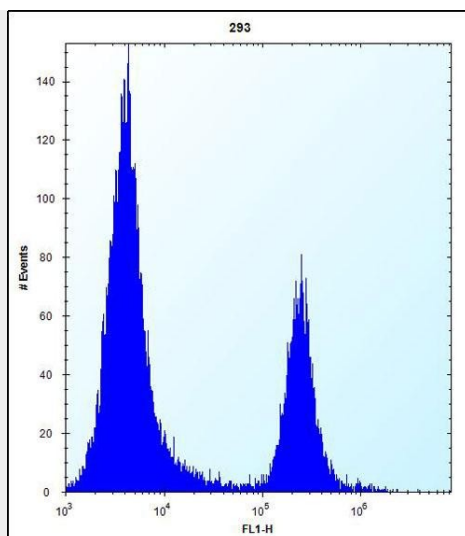
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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.



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)
Hosgood, H.D. III, et al. *Respir Med* 103(12):1866-1870(2009)
Zhang, J., et al. *Pharm. Res.* 26(9):2209-2215(2009)
Choi, J.Y., et al. *Clin. Cancer Res.* 15(16):5258-5266(2009)
Pilka, E.S., et al. *PLoS ONE* 4 (10), E7113 (2009) :