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CBR3 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12881b

Specification

CBR3 Antibody (C-term) Blocking peptide - Product Information

Primary Accession O75828

CBR3 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 874

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CBR3 Antibody (C-term) Blocking peptide - 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) Blocking peptide - Protocols

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

- Blocking Peptides

CBR3 Antibody (C-term) Blocking peptide - Images

CBR3 Antibody (C-term) Blocking peptide - Background

Carbonyl reductase 3 catalyzes the reduction of a largenumber of biologically and pharmacologically active carbonylcompounds to their corresponding alcohols. The enzyme isclassified as a monomeric NADPH-dependent oxidoreductase. CBR3contains three exons spanning 11.2 kilobases and is closely linkedto another carbonyl reductase gene - CBR1.

CBR3 Antibody (C-term) Blocking peptide - 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) :