

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

CBR3 Antibody (C-term) Blocking peptide - Product InformationPrimary 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 InformationName 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:18493841, PubMed:15537833, 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 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) 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) :