

CBR3 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8544c**Specification****CBR3 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O75828](#)**CBR3 Antibody (Center) Blocking Peptide - Additional Information****Gene ID 874****Other Names**

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP8544c was selected from the Center region of human CBR3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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 (Center) 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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CBR3 Antibody (Center) Blocking Peptide - Images**CBR3 Antibody (Center) 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 (Center) Blocking Peptide - References

Persson,B., et.al., Chem. Biol. Interact. 178 (1-3), 94-98 (2009)Umemoto,M., et.al., Br. J. Cancer 85 (7), 1032-1036 (2001)