

**CBR1 Antibody (Center) Blocking Peptide  
Synthetic peptide  
Catalog # BP7563d**

## Specification

## CBR1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P16152

## CBR1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 873

## Other Names

Carbonyl reductase [NADPH] 1, 15-hydroxyprostaglandin dehydrogenase [NADP(+)], NADPH-dependent carbonyl reductase 1, Prostaglandin 9-ketoreductase, Prostaglandin-E(2) 9-reductase, CBR1, CBR, CRN

## Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7563d](/products/AP7563d) was selected from the Center region of human CBR1. 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.

## CBR1 Antibody (Center) Blocking Peptide - Protein Information

Name CBR1 ([HGNC:1548](#))

**Synonyms** CBR, CRN, SDR21C1

## Function

href="http://www.uniprot.org/citations/18826943" target="\_blank">>18826943</a>, PubMed:<a href="http://www.uniprot.org/citations/1921984" target="\_blank">>1921984</a>, PubMed:<a href="http://www.uniprot.org/citations/7005231" target="\_blank">>7005231</a>). Can convert prostaglandin E to prostaglandin F2-alpha (By similarity). Can bind glutathione, which explains its higher affinity for glutathione- conjugated substrates. Catalyzes the reduction of S-nitrosoglutathione (PubMed:<a href="http://www.uniprot.org/citations/17344335" target="\_blank">>17344335</a>, PubMed:<a href="http://www.uniprot.org/citations/18826943" target="\_blank">>18826943</a>). In addition, participates in the glucocorticoid metabolism by catalyzing the NADPH-dependent cortisol/corticosterone into 20beta-dihydrocortisol (20b-DHF) or 20beta-corticosterone (20b-DHB), which are weak agonists of NR3C1 and NR3C2 in adipose tissue (PubMed:<a href="http://www.uniprot.org/citations/28878267" target="\_blank">>28878267</a>).

**Cellular Location**

Cytoplasm.

**Tissue Location**

Expressed in kidney (at protein level).

**CBR1 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**CBR1 Antibody (Center) Blocking Peptide - Images****CBR1 Antibody (Center) Blocking Peptide - Background**

Carbonyl reductase 1 (CBR1) is one of several monomeric, NADPH-dependent oxidoreductases having wide specificity for carbonyl compounds. This enzyme is widely distributed in human tissues.

**CBR1 Antibody (Center) Blocking Peptide - References**

Colombe,L., Exp. Dermatol. 16 (9), 762-769 (2007) Lakhman,S.S., Mol. Pharmacol. 72 (3), 734-743 (2007) Gonzalez-Covarrubias,V., Drug Metab. Dispos. 35 (6), 973-980 (2007)