

## Anti-CBR1 Rabbit Monoclonal Antibody Catalog # ABO16562

### Specification

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#### Anti-CBR1 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC
Primary Accession	<a href="#">P16152</a>
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-CBR1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human.

#### Anti-CBR1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 873

#### Other Names

Carbonyl reductase [NADPH] 1, 1.1.1.184, 15-hydroxyprostaglandin dehydrogenase [NADP(+)], 1.1.1.196, 1.1.1.189, Short chain dehydrogenase/reductase family 21C member 1, CBR1 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=1548](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1548))>HGNC:1548</a>), CBR, CRN, SDR21C1

#### Calculated MW

30 kDa KDa

#### Application Details

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human CBR1

#### Purification

Affinity-chromatography

#### Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

#### Anti-CBR1 Rabbit Monoclonal Antibody - Protein Information

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

**Synonyms** CBR, CRN, SDR21C1

### Function

NADPH-dependent reductase with broad substrate specificity. Catalyzes the reduction of a wide variety of carbonyl compounds including quinones, prostaglandins, menadione, plus various xenobiotics. Catalyzes the reduction of the antitumor anthracyclines doxorubicin and daunorubicin to the cardiotoxic compounds doxorubicinol and daunorubicinol (PubMed:<a href="http://www.uniprot.org/citations/15799708" target="\_blank">15799708</a>, PubMed:<a href="http://www.uniprot.org/citations/17344335" target="\_blank">17344335</a>, PubMed:<a href="http://www.uniprot.org/citations/17912391" target="\_blank">17912391</a>, PubMed:<a href="http://www.uniprot.org/citations/18449627" target="\_blank">18449627</a>, PubMed:<a 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).

## Anti-CBR1 Rabbit Monoclonal Antibody - 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](#)

## Anti-CBR1 Rabbit Monoclonal Antibody - Images