

Anti-CBR1 Rabbit Monoclonal Antibody Catalog # ABO16041

Specification

Anti-CBR1 Rabbit Monoclonal Antibody - Product Information

Application	WB, IP
Primary Accession	P16152
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-CBR1 Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat.

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 ([HGNC:1548](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1548)), CBR, CRN, SDR21C1

Calculated MW

30 kDa KDa

Application Details

WB 1:500-1:2000
IP 1:50

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:[15799708](http://www.uniprot.org/citations/15799708), PubMed:[17344335](http://www.uniprot.org/citations/17344335), PubMed:[17912391](http://www.uniprot.org/citations/17912391), PubMed:[18449627](http://www.uniprot.org/citations/18449627), PubMed:[18826943](http://www.uniprot.org/citations/18826943), PubMed:[1921984](http://www.uniprot.org/citations/1921984), PubMed:[7005231](http://www.uniprot.org/citations/7005231)). 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:[17344335](http://www.uniprot.org/citations/17344335), PubMed:[18826943](http://www.uniprot.org/citations/18826943)). 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:[28878267](http://www.uniprot.org/citations/28878267)).

Cellular Location

Cytoplasm.

Tissue Location

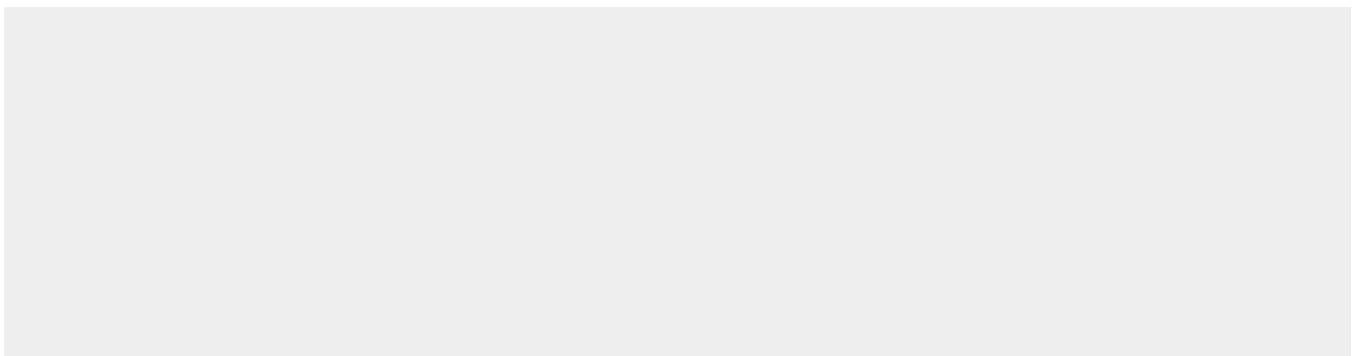
Expressed in kidney (at protein level).

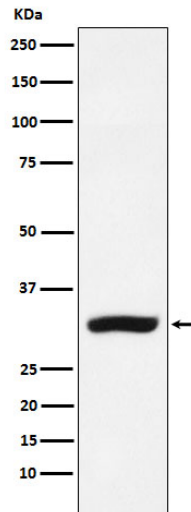
Anti-CBR1 Rabbit Monoclonal Antibody - Protocols

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





Western blot analysis of CBR1 expression in MCF-7 cell lysate.