CBR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CBR1, Polyclonal Antibody
Full Product Name	CBR1 Rabbit pAb
Product Gene Name	anti-CBR1 antibody
Product Synonym Names	CBR; hCBR1; SDR21C1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	35kDa
OMIM	114830
3D Structure	ModBase 3D Structure for P16152
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-277 of human CBR1 (NP_001748.1).
Cellular Localization	Cytoplasm
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CBR1 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-CBR1 antibody	WB: 1:500-1:2000 IF: 1:10-1:100
Related Product Information for anti-CBR1 antibody	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. Can convert prostaglandin E2 to prostaglandin F2-alpha. Can bind glutathione, which explains its higher affinity for glutathione-conjugated substrates. Catalyzes the reduction of S-nitrosoglutathione.
Other Notes	Small volumes of anti-CBR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CBR1 purchase	MBS8545589 is an antibody targeting CBR1. Also known as CBR1 Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CBR1. It may not necessarily be applicable to this product.

NCBI GI #	4502599

NCBI GeneID	873
NCBI Accession #	NP_001748.1
UniProt Primary Accession #	P16152
UniProt Related Accession #	P16152
GenBank Nucleotide #	NP_001748.1
NCBI Official Full Name	carbonyl reductase
NCBI Official Synonym Full Names	carbonyl reductase 1
NCBI Official Symbol	CBR1
NCBI Official Synonym Symbols	CBR; hCBR1; SDR21C1
UniProt Protein Name	Carbonyl reductase [NADPH] 1
UniProt Synonym Protein Names	15-hydroxyprostaglandin dehydrogenase [NADP(+)] (EC:1.1.1.197); NADPH-dependent carbonyl reductase 1; Prostaglandin 9-ketoreductase; Prostaglandin-E(2) 9-reductase (EC:1.1.1.189)
Protein Family	Carbonyl reductase
UniProt Gene Name	CBR1
UniProt Synonym Gene Names	CBR; CRN
UniProt Entry Name	CBR1_HUMAN
NCBI Protein Information	carbonyl reductase [NADPH] 1
NCBI Summary for CBR1	The protein encoded by this gene belongs to the short-chain dehydrogenases/reductases (SDR) family, which function as NADPH-dependent oxidoreductases having wide specificity for carbonyl compounds, such as quinones, prostaglandins, and various xenobiotics. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2013]
UniProt Comments for CBR1	CBR1: 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. Can convert prostaglandin E2 to prostaglandin F2-alpha. Can bind glutathione, which explains its higher affinity for glutathione-conjugated substrates. Catalyzes the reduction of S-nitrosoglutathione. Belongs to the short-chain dehydrogenases/reductases (SDR) family. Protein type: Lipid Metabolism - arachidonic acid; EC 1.1.1.189; EC 1.1.1.197; EC 1.1.1.184; Oxidoreductase Chromosomal Location of Human Ortholog: 21q22.13 Cellular Component: cytosol; vesicle Molecular Function: oxidoreductase activity, acting on NADH or NADPH, quinone or similar compound as acceptor; prostaglandin-E2 9-reductase activity; 15-hydroxyprostaglandin dehydrogenase (NADP+) activity; carbonyl reductase (NADPH) activity Biological Process: epithelial cell differentiation; vitamin K metabolic process; cyclooxygenase pathway; arachidonic acid metabolic process; drug metabolic process
Research Articles on CBR1	**1.** These findings suggest that CBR1 generating 20beta-dihydrocortisol is a novel pathway modulating GR activation and providing enzymatic protection against excessive GR activation in obesity.
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