CBR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CBR1, Polyclonal Antibody
Full Product Name	CBR1, ID (Carbonyl Reductase [NADPH] 1, NADPH-dependent Carbonyl Reductase 1, Prostaglandin-E(2) 9-reductase, Prostaglandin 9-ketoreductase, 15-hydroxyprostaglandin Dehydrogenase [NADP+], CBR, CRN) (MaxLight 750)
Product Gene Name	anti-CBR1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CBR1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	18,762 Da
OMIM	114830
3D Structure	ModBase 3D Structure for P16152
Immunogen	Synthetic peptide selected from the center region of human CBR1 (KLH).
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-CBR1 antibody	Antibodies; Prostaglandins
Applications Tested/Suitable for anti-CBR1 antibody	Immunohistochemistry (IHC), FLISA
Application Notes for anti-CBR1 antibody	IHC: 1:10-1:50 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CBR1 antibody	MBS6467051 is an antibody targeting CBR1. Also known as CBR1, ID (Carbonyl Reductase [NADPH] 1, NADPH-dependent Carbonyl Reductase 1, Prostaglandin-E(2) 9-reductase, Prostaglandin 9-ketoreductase, 15-hydroxyprostaglandin Dehydrogenase [NADP+], CBR, CRN) (MaxLight 750). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CBR1 antibody	1. Colombe, L., Exp. Dermatol. 16(9), 762-769 (2007). 2. Lakhman, S.S., Mol. Pharmacol. 72(3), 734-743 (2007). 3. Gonzalez-Covarrubias, V., Drug Metab. Dispos. 35(6), 973-980 (2007).
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.

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
UniProt Primary Accession #	P16152
UniProt Secondary Accession #	Q3LHW8; B2RBZ7; B4DFK7
UniProt Related Accession #	P16152
GenBank Nucleotide #	NM_001757.3
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.** CRB1 is an efficient catalyst for the reduction of glutathionylated aldehydes derived from lipid peroxidation.

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