

Mouse anti-Human, Mouse CBR1 Monoclonal Antibody | anti-CBR1 antibody

CBR1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48088	Mouse	Human, Mouse	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

CBR1; Monoclonal Antibody; CBR1 antibody; Carbonyl reductase 1; CBR; hCBR1; SDR21C1; Carbonyl reductase 1 15 hydroxyprostaglandin dehydrogenase [NADP+]; Carbonyl reductase [NADPH] 1.CBR 1; CRN; NADPH dependent carbonyl reductase 1; Prostaglandin 9 ketoreductase; Prostaglandin E (2) 9 reductase.; anti-CBR1 antibody

PRODUCT SPECIFICATIONS

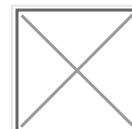
Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	AT4E12
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	277
Applicable Applications for anti-CBR1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human CBR1 (1-277 aa) purified from E. coli
Clone Note	Anti-human CBR1 mAb, clone 4E12, is derived from hybridization of mouse SP2/0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CBR1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of CBR1 in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-CBR1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CBR1 antibody (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-CBR1 antibody	Carbonyl reductase 1 (CBR1) is a NADPH-dependent, monomeric, and cytosolic enzyme belonging to a family of short-chain dehydrogenases/reductases. This protein consists of 277 amino acid residues and is widely distributed in human tissues such as liver, epidermis, stomach, small intestine, kidney, neuronal cells, and smooth muscle fiber. CBR1 metabolizes many toxic environmental quinones and pharmacological relevant substrates such as the anticancer drug, doxorubicin. The best substrates of CBR1 are quinones, including ubiquinone-1 and tocophrolquinone (vitamin E).
Product Categories/Family for anti-CBR1 antibody	Metabolism
References	Lemieux N, et al. (1993) Genomics. 15 (1):169-72.; Wermuth B, et al. (1986). Biochem. Pharmacol. 35 (8): 1277-82

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502599
NCBI GeneID	873
NCBI Accession #	NP_001748
NCBI GenBank Nucleotide #	NM_001757.3
UniProt Accession #	P16152; Q3LHW8; B2RBZ7; B4DFK7
Molecular Weight	18,762 Da
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
NCBI Protein Information	carbonyl reductase [NADPH] 1
UniProt Protein Name	Carbonyl reductase [NADPH] 1
UniProt Gene Name	CBR1
UniProt Synonym Gene Names	CBR; CRN; SDR21C1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cbr1-antibody-clone-at4e12-immunofluorescence-immunocytochemistry-western-blot-elisa/48088>