

CBR1 Antibody

Rabbit mAb

Catalog # AP93102

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P16152
Reactivity	Human
Clonality	Monoclonal
Other Names	15 hydroxyprostaglandin dehydrogenase [NADP+]; Carbonyl reductase [NADPH] 1; CBR1; CRN; NADPH dependent carbonyl reductase 1; Prostaglandin 9 ketoreductase; SDR21C1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	30375

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human CBR1
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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 , PubMed: 17344335 , PubMed: 17912391 , PubMed: 18449627 , PubMed: 18826943 , PubMed: 1921984 , PubMed: 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](#), PubMed:[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](#)).

Cellular Location	Cytoplasm.
Tissue Location	Expressed in kidney (at protein level).

Images

Image not found : 202311/AP93102-wb.jpg

Western blot analysis of CBR1 expression in HeLa cell lysate.

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