

# CBR1 Antibody

Rabbit mAb

Catalog # AP92624

## Product Information

<b>Application</b>	WB, IP
<b>Primary Accession</b>	<a href="#">P16152</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	CBR1; CRN; SDR21C1;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	30375

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IP 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human CBR1
<b>Description</b>	NADPH-dependent reductase with broad substrate specificity. Catalyzes the reduction of a wide variety of carbonyl compounds including quinones, prostaglandins, menadione, plus various xenobiotics.
<b>Storage Condition and Buffer</b>	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

<b>Name</b>	CBR1 ( <a href="#">HGNC:1548</a> )
<b>Synonyms</b>	CBR, CRN, SDR21C1
<b>Function</b>	<p>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:<a href="#">15799708</a>, PubMed:<a href="#">17344335</a>, PubMed:<a href="#">17912391</a>, PubMed:<a href="#">18449627</a>, PubMed:<a href="#">18826943</a>, PubMed:<a href="#">1921984</a>, PubMed:<a href="#">7005231</a>).</p> <p>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:<a href="#">17344335</a>, PubMed:<a href="#">18826943</a>). 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</p>

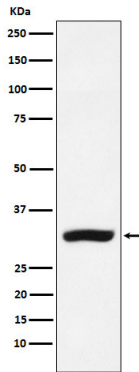
NR3C2 in adipose tissue (PubMed:[28878267](#)).

**Cellular Location** Cytoplasm.

**Tissue Location** Expressed in kidney (at protein level).

## Images

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

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