

CBR4 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17512B**Specification**

CBR4 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q8N4T8
Other Accession	NP_116172.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	25301
Antigen Region	178-205

CBR4 Antibody (C-term) - Additional Information**Gene ID** 84869**Other Names**

Carbonyl reductase family member 4, 1---, 3-oxoacyl-[acyl-carrier-protein] reductase, 111-,
Quinone reductase CBR4, CBR4

Target/Specificity

This CBR4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 178-205 amino acids from the C-terminal region of human CBR4.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CBR4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CBR4 Antibody (C-term) - Protein Information**Name** CBR4**Synonyms** SDR45C1

Function Component of the heterotetramer complex KAR (3-ketoacyl-[acyl carrier protein] reductase or 3-ketoacyl-[ACP] reductase) that forms part of the mitochondrial fatty acid synthase (mtFAS). Beta-subunit of the KAR heterotetramer complex, responsible for the 3-ketoacyl-ACP reductase activity of the mtFAS, reduces 3-oxoacyl-[ACP] to (3R)-hydroxyacyl-[ACP] in a NADPH-dependent manner with no chain length preference, thereby participating in mitochondrial fatty acid biosynthesis (PubMed:[25203508](#)). The homotetramer has NADPH-dependent quinone reductase activity (in vitro), hence could play a role in protection against cytotoxicity of exogenous quinones (PubMed:[19000905](#)). As a heterotetramer, it can also reduce 9,10-phenanthrenequinone, 1,4-benzoquinone and various other o-quinones and p-quinones (in vitro) (PubMed:[19000905](#), PubMed:[19571038](#), PubMed:[25203508](#)).

Cellular Location

Mitochondrion matrix

Tissue Location

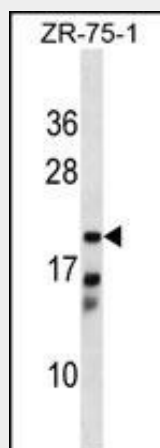
Detected in liver and kidney (at protein level) (PubMed:[19000905](#)). Displays the highest expression in neuronal and muscle tissues (PubMed:[25203508](#)).

CBR4 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CBR4 Antibody (C-term) - Images



CBR4 Antibody (C-term) (Cat. #AP17512b) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the CBR4 antibody detected the CBR4 protein (arrow).

CBR4 Antibody (C-term) - Background

The heterotetramer with HSD17B8 has NADH-dependent 3-ketoacyl-acyl carrier protein reductase activity. May play a role in biosynthesis of fatty acids in mitochondria. The homotetramer may act

as NADPH-dependent quinone reductase. Has broad substrate specificity and reduces 9,10-phenanthrenequinone, 1,4-benzoquinone and various other o-quinones and p-quinones (in vitro).

CBR4 Antibody (C-term) - References

- Chen, Z., et al. FASEB J. 23(11):3682-3691(2009)
Persson, B., et al. Chem. Biol. Interact. 178 (1-3), 94-98 (2009) :
Endo, S., et al. Biochem. Biophys. Res. Commun. 377(4):1326-1330(2008)
Lamesch, P., et al. Genomics 89(3):307-315(2007)