

CBR4 Rabbit pAb

CatalogNo: YN8272

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 26kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen Synthesized peptide derived from human CBR4

Specificity This antibody detects endogenous levels of CBR4 at Human, Mouse, Rat

| Target Information

Gene name CBR4

Protein Name	Carbonyl reductase family member 4 (3-oxoacyl-[acyl-carrier-protein] reductase) (Quinone reductase CBR4)		
	Organism	Gene ID	UniProt ID
	Human	84869 ;	Q8N4T8 ;
	Mouse	234309 ;	Q91VT4 ;
	Rat	359725 ;	Q7TS56 ;
Cellular Localization	Mitochondrion matrix .		
Tissue specificity	Detected in liver and kidney (at protein level) (PubMed:19000905). Displays the highest expression in neuronal and muscle tissues (PubMed:25203508).		
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 . The homotetramer has NADPH-dependent quinone reductase activity (in vitro), hence could play a role in protection against cytotoxicity of exogenous quinones . As a heterotetramer, it can also reduce 9,10-phenanthrenequinone, 1,4-benzoquinone and various other o-quinones and p-quinones (in vitro) .		

| Validation Data

| Contact information

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