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anti-OXCT1 antibody (Middle Region)

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Images



Go to Product page

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Quantity:	100 μL
Target:	OXCT1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Zebrafish (Danio rerio), Guinea Pig, Dog, Horse, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OXCT1 antibody is un-conjugated
Application:	Western Blotting (WB)
Product Details	
Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human OXCT1
Sequence:	GMYANLGIGI PLLASNFISP NITVHLQSEN GVLGLGPYPR QHEADADLIN
Predicted Reactivity:	Cow: 100%, Dog: 92%, Guinea Pig: 100%, Horse: 92%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Yeast: 100%, Zebrafish: 92%
Characteristics:	This is a rabbit polyclonal antibody against OXCT1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified
Target Details	
Target:	OXCT1

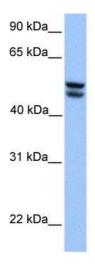
Target Details

Alternative Name:	OXCT1 (OXCT1 Products)		
Background:	CT1 is a member of the 3-oxoacid CoA-transferase gene family. It is a homodimeric		
	mitochondrial matrix enzyme that plays a central role in extrahepatic ketone body catabolism		
	by catalyzing the reversible transfer of coenzyme A from succinyl-CoA to acetoacetate. This		
	gene encodes a member of the 3-oxoacid CoA-transferase gene family. The encoded protein is		
	a homodimeric mitochondrial matrix enzyme that plays a central role in extrahepatic ketone		
	body catabolism by catalyzing the reversible transfer of coenzyme A from succinyl-CoA to		
	acetoacetate. Mutations in this gene are associated with succinyl CoA:3-oxoacid CoA		
	transferase deficiency. This gene encodes a member of the 3-oxoacid CoA-transferase gene		
	family. The encoded protein is a homodimeric mitochondrial matrix enzyme that plays a central		
	role in extrahepatic ketone body catabolism by catalyzing the reversible transfer of coenzyme		
	from succinyl-CoA to acetoacetate. Mutations in this gene are associated with succinyl CoA:3-		
	oxoacid CoA transferase deficiency.		
	Alias Symbols: OXCT, SCOT		
	Protein Interaction Partner: SUMO2, UBC, MDM2, THOP1, RBBP7, PTPN11, PTMS, NME1, IDH1		
	HSPD1, MAPK14, ADSS, MTPN, C12orf10, CBX3, C11orf58, WDR1, IQCB1, TMEM189, TMEM9,		
	VMA21, S100A16, TMEM177, SCAF4, SEPT11, SDHAF2, TIMM9, TOR1AIP1, UBXN7, VAPB,		
	SUCLA2, SUCLG1, UQCRFS1P1, UQCRFS1, T		
	Protein Size: 520		
Molecular Weight:	52 kDa		
Gene ID:	5019		
NCBI Accession:	NM_000436, NP_000427		
UniProt:	P55809		
Pathways:	Positive Regulation of Peptide Hormone Secretion, Carbohydrate Homeostasis		
Application Details			
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.		
Comment:	Antigen size: 520 AA		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		

Handling

Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 $\%$ (w/v) sodium azide and 2 $\%$ sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images

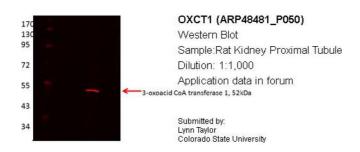


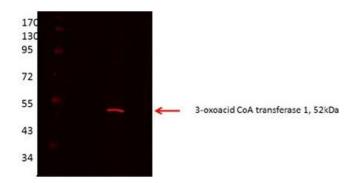
Western Blotting

Image 1. WB Suggested Anti-OXCT1 Antibody Titration: 0.2-1 ug/ml Positive Control: HepG2 cell lysate

Western Blotting

Image 2.





Western Blotting

Image 3. OXCT1 antibody - middle region validated by WB using Proximal kidney tubules purfied from cortex at 1:1000.