SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CRAT antibody

Catalog Number: SL15397R

FOR RESEARCH USE ONLY

[DATASHEET]

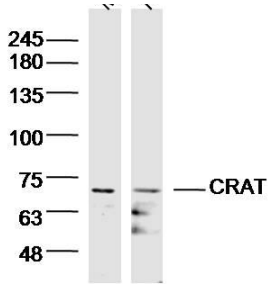
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CRAT
Immunogen:	KLH conjugated synthetic peptide derived from human CRAT: 301-400/626
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Chicken)
Predicted MW.:	71kDa
Subcellular Location:	The cell membrane
Background:	CRAT is a key enzyme in the metabolic pathway in mitochondria, peroxisomes and endoplasmic reticulum. CRAT catalyzes the reversible transfer of acyl groups from an acyl-CoA thioester to carnitine and regulates the ratio of acylCoA/CoA in the subcellular compartments. Two transcript variants encoding different isoforms have been found for this gene. **Function:** Carnitine acetylase is specific for short chain fatty acids. Carnitine acetylase seems to affect the flux through the pyruvate dehydrogenase complex. It may be involved as well in the transport of acetyl-CoA into mitochondria. **Subunit:** Monomer. **Subcellular Location:** Endoplasmic reticulum (Potential). Peroxisome (Potential). Mitochondrion inner membrane; Peripheral membrane protein; Matrix side (Potential). Isoform 1: Mitochondrion (Potential). Isoform 2: Peroxisome (Potential).

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Tissue Specificity: Mostly in skeletal muscle, less in heart, liver and pancreas, only weakly detectable in brain, placenta, lung and kidney. **Similarity:** Belongs to the carnitine/choline acetyltransferase family. **Database links:** **Entrez Gene:** 6541 Human **Entrez Gene:** 11987 Mouse Omim: 104615 Human **SwissProt:** P30825 Human **SwissProt:** Q09143 Mouse **Unigene:** 14846 Human **Unigene:** 275489 Mouse

[VALIDATION IMAGES]



Sample:
muscle (Mouse) Lysate at 40 ug
heart (Mouse) Lysate at 40 ug
Primary: Anti-CRAT(SL15397R)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 71kD
Observed band size: 71kD

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