

Datasheet for ABIN7602757

anti-Acetyl-CoA Carboxylase beta antibody (C-Term)



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Overview		
Quantity:	100 μg	
Target:	Acetyl-CoA Carboxylase beta (ACACB)	
Binding Specificity:	C-Term	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This Acetyl-CoA Carboxylase beta antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS)	
Product Details		
Purpose:	Anti-Acetyl Coenzyme A Carboxylase/ACACB Antibody Picoband®	
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Acetyl Coenzyme A Carboxylase/ACACB, which shares 64.7% amino acid (aa) sequence identity with mouse Acetyl Coenzyme A Carboxylase/ACACB.	
Isotype:	IgG	
Cross-Reactivity (Details):	No cross-reactivity with other proteins.	
Characteristics:	Anti-Acetyl Coenzyme A Carboxylase/ACACB Antibody Picoband® (ABIN7602757). Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.	

Product Details Purification: Immunogen affinity purified. **Target Details** Target: Acetyl-CoA Carboxylase beta (ACACB) Alternative Name: ACACB (ACACB Products) Background: Synonyms: Acetyl-CoA carboxylase 2, ACC-beta, Biotin carboxylase, ACACB, ACC2, ACCB Tissue Specificity: Widely expressed with highest levels in heart, skeletal muscle, liver, adipose tissue, mammary gland, adrenal gland and colon (PubMed:9099716). Isoform 3 is expressed in skeletal muscle, adipose tissue and liver (at protein level) (PubMed:19190759). Isoform 3 is detected at high levels in adipose tissue with lower levels in heart, liver, skeletal muscle and testis (PubMed:19190759). Background: Acetyl-CoA carboxylase 2 also known as ACC-beta or ACC2 is an enzyme that in humans is encoded by the ACACB gene. It is mapped to 12q24.11. Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme system. ACC is a biotin-containing enzyme which catalyzes the carboxylation of acetyl-CoA to malonyl-CoA, the rate-limiting step in fatty acid synthesis. ACC-beta is thought to control fatty acid oxidation by means of the ability of malonyl-CoA to inhibit carnitine-palmitoyl-CoA transferase I, the rate-limiting step in fatty acid uptake and oxidation by mitochondria. ACC-beta may be involved in the regulation of fatty acid oxidation, rather than fatty acid biosynthesis. There is evidence for the presence of two ACCbeta isoforms. Molecular Weight: 277 kDa Gene ID: 32 UniProt: 000763 Pathways: AMPK Signaling, Ribonucleoside Biosynthetic Process **Application Details**

Application Notes:	Western blot, 0.25-0.5 μg/mL, Mouse, Rat
	Immunohistochemistry (Paraffin-embedded Section), 0.5-1 μg/mL, Mouse, Rat
	Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells, Human
	1. Widmer J, Fassihi KS, Schlichter SC, Wheeler KS, Crute BE, King N, Nutile-McMenemy N, Noll
	WW, Daniel S, Ha J, Kim KH, Witters LA (June 1996). "Identification of a second human acetyl-
	CoA carboxylase gene". The Biochemical Journal. 316 (Pt 3) (3): 915-22. 2. Corbett JW,

Harwood JH (November 2007). "Inhibitors of mammalian acetyl-CoA carboxylase". Recent

Application Details

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	Patents on Cardiovascular Drug Discovery. 2 (3): 162-80. 3. Olson DP, Pulinilkunnil T, Cline GW, Shulman GI, Lowell BB (April 2010). "Gene knockout of Acc2 has little effect on body weight, fat mass, or food intake". Proceedings of the National Academy of Sciences of the United States of America. 107 (16): 7598-603.	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μg/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.	
Preservative:	Sodium azide	
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Precaution of Use:

4 °C,-20 °C

should be handled by trained staff only.

Storage Comment:

Storage:

Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which