

bs-11912R**[Primary Antibody]****ACACA Rabbit pAb****BioSS**
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— DATASHEET —

Host: Rabbit	Isotype: IgG	Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Sheep, Cow, Dog, Horse)
Clonality: Polyclonal		
GeneID: 32	SWISS: Q13085	
Target: ACACA		Predicted MW.: 266 kDa
Immunogen: KLH conjugated synthetic peptide derived from human ACACA: 951-1050/2346.		Subcellular Location: Cytoplasm
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°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: 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. There are two ACC forms, alpha and beta, encoded by two different genes. ACC-alpha is highly enriched in lipogenic tissues. The enzyme is under long term control at the transcriptional and translational levels and under short term regulation by the phosphorylation/dephosphorylation of targeted serine residues and by allosteric transformation by citrate or palmitoyl-CoA. Multiple alternatively spliced transcript variants divergent in the 5' sequence and encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008].		

— SELECTED CITATIONS —

- **[IF=5.5]** Fu et al. Lack of CLC-2 Alleviates High Fat Diet-Induced Insulin Resistance and Non-Alcoholic Fatty Liver Disease. (2018) Cell.Physiol.Biochem. 45:2187-2201 **WB ;Mouse**. 29550812
- **[IF=6.3]** Jing Zhang. et al. Dietary supplementation of sodium butyrate enhances lactation performance by promoting nutrient digestion and mammary gland development in dairy cows. ANIM NUTR. 2023 Sep.; **WB ;Bovine**. 10.1016/j.aninu.2023.08.008
- **[IF=5.4]** Chuiyang Zheng. et al. Chaihu Shugan powder influences nonalcoholic fatty liver disease in rats in remodeling microRNAome and decreasing fatty acid synthesis. J ETHNOPHARMACOL. 2024 Jan;318:116967 **WB ;Rat**. 37506783
- **[IF=3.448]** Yang X et al. miR - 760 exerts an antioncogenic effect in esophageal squamous cell carcinoma by negatively driving fat metabolism via targeting c - Myc. J Cell Biochem. 2019 Nov 10. **WB ;Human**. 31709636
- **[IF=2.8]** Yuting Lei. et al.Tiaogan Jiejie Tongluo formula alleviates hepatic steatosis in NAFLD mice by regulating AMPK signaling pathway.journal of pharmacy and pharmacology.2025 Feb 14:rgaf005. **Western blot ;Mouse**. 39951113