Product Datasheet

ACSL5 Antibody (5H8) - Azide and BSA Free
H00051703-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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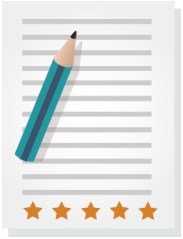
Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/H00051703-M01

Updated 9/9/2025 v.20.1



H00051703-M01

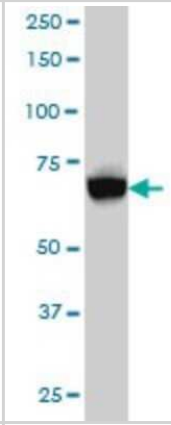
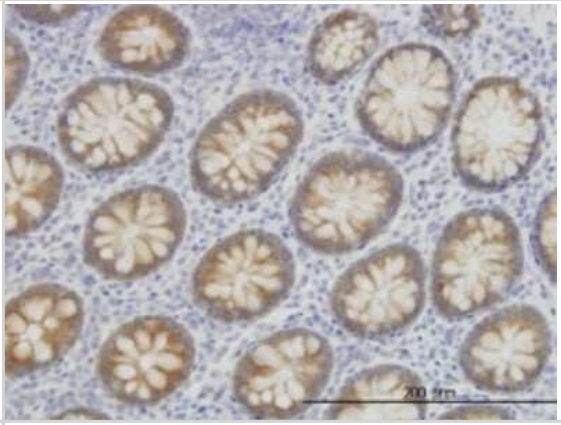
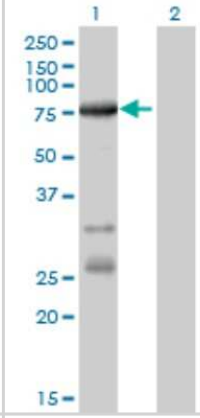
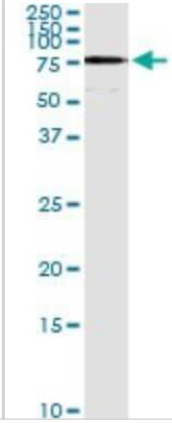
ACSL5 Antibody (5H8) - Azide and BSA Free

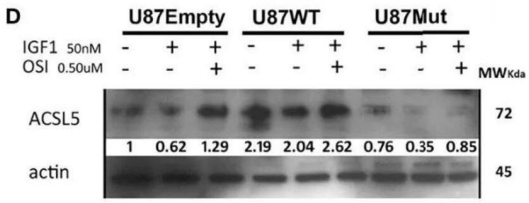
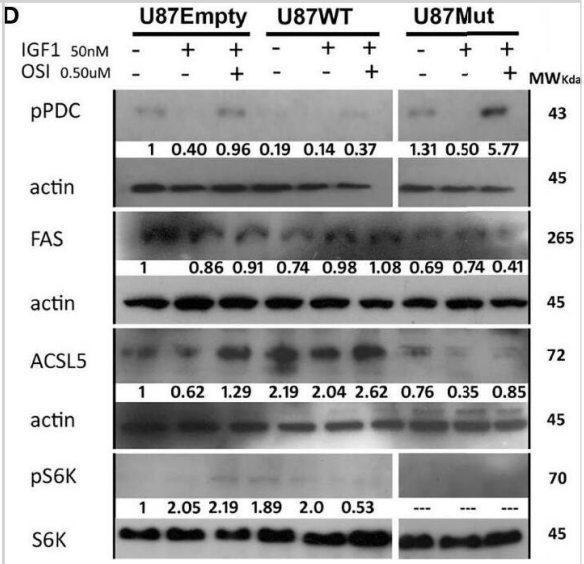
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5H8
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4

Product Description	
Description	Novus Biologicals Mouse ACSL5 Antibody (5H8) - Azide and BSA Free (H00051703-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA and IP. Anti-ACSL5 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	51703
Gene Symbol	ACSL5
Species	Human
Reactivity Notes	Human. Other species not tested.
Specificity/Sensitivity	ACSL5 - acyl-CoA synthetase long-chain family member 5
Immunogen	ACSL5 (NP_057318, 91 a.a. ~ 186 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. PQPVLPLLDLNNQSVGIEGGARKGVSQKNNDLTSCCFSDAKTMYEVFQRGLA VSDNGPCLGYRKPNQPYRWLSYKQVSDRAEYLGSCLLHKGYKSS
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunohistochemistry, Immunoprecipitation, Sandwich ELISA
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunoprecipitation, Immunohistochemistry-Paraffin, Sandwich ELISA
Application Notes	Antibody reactive against cell lysate and recombinant protein for Western Blot. Has also been used for immunohistochemistry (paraffin) and ELISA.

Images

Western Blot: ACSL5 Antibody (5H8) [H00051703-M01] - ACSL5 monoclonal antibody (M01), clone 5H8 Analysis of ACSL5 expression in HepG2.	
Immunohistochemistry-Paraffin: ACSL5 Antibody (5H8) [H00051703-M01] - Analysis of monoclonal antibody to ACSL5 on formalin-fixed paraffin-embedded human colon. Antibody concentration 3 ug/ml.	
Western Blot: ACSL5 Antibody (5H8) [H00051703-M01] - Analysis of ACSL5 expression in transfected 293T cell line by ACSL5 monoclonal antibody (M01), clone 5H8.Lane 1: ACSL5 transfected lysate(82.3 KDa).Lane 2: Non-transfected lysate.	
Immunoprecipitation: ACSL5 Antibody (5H8) [H00051703-M01] - Analysis of ACSL5 transfected lysate using anti-ACSL5 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with ACSL5 MaxPab rabbit polyclonal antibody.	

Sandwich ELISA: ACSL5 Antibody (5H8) [H00051703-M01] - Detection limit for recombinant GST tagged ACSL5 is approximately 0.1ng/ml as a capture antibody.	
Western Blot: ACSL5 Antibody (5H8) [H00051703-M01] - Representative western blotting (n = 3) for U87Empty, U87WT, and U87Mut cell protein extracts. The membranes were blotted with ACSL5 (H00051703-M01). The relative quantification of the bands is shown under the line. Blot was stripped and reprobed with anti-beta actin. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/35574033/) licensed under a CC-BY license.	
Western Blot: ACSL5 Antibody (5H8) [H00051703-M01] - Effects of IGF1R localization over cell metabolism. (A) U87Empty, U87WT, & U87Mut cells were cultured 24 h in serum-free medium or with 50-nM IGF1 stimulation (IGF1). To test the specificity of the response, pre-incubation (1 h) with 0.5 µM OSI906 was also performed (IGF1+ OSI). (A, B) GLUT1 mRNA expression was calculated by rqPCR by the relative quantitation method. (A) Values are presented as fold change compared to control conditions (serum-free). (B) IGF1 stimuli comparison between cell lines. The results are presented as fold change due to IGF1 stimulation over basal conditions (serum-free). Values are expressed as mean ± SD of three independent experiments performed in triplicates (*p < 0.05, **p < 0.005, ***p < 0.001, ****p < 0.0001, ANOVA, Tukey's post-test). (C) LDH enzyme activity was measured & normalized to DNA content (mg). The results are expressed as mean ± SD of three independent experiments (**p < 0.005, ANOVA, Tukey's post-test). (D) Representative western blotting (n = 3) for U87Empty, U87WT, & U87Mut cell protein extracts. The membranes were blotted with anti-pPDC (line 1), anti-FAS (line 3), anti-ACSL5 (line 5), & anti-pS6K (line 7). Each blot was stripped & reprobed with anti-β actin (lines 2, 4, & 6) or antitotal-S6K (line 8). The relative quantification of the bands is shown under each line. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35574033), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Martin A, Fernandez M, Cattaneo E et al. Type 1 Insulin-Like Growth Factor Receptor Nuclear Localization in High-Grade Glioma Cells Enhances Motility, Metabolism, and In Vivo Tumorigenesis Frontiers in Endocrinology [PMID: 35574033]

Khalid A, Cassian A, Nadia A et al. Deficiency of Acyl-CoA Synthetase 5 (ACSL5) is Associated with a Severe and Treatable Failure to Thrive of Neonatal Onset. Clin Genet. 2020-11-15 [PMID: 33191500]

Mashima T, Sato S, Sugimoto Y et al. Promotion of glioma cell survival by acyl-CoA synthetase 5 under extracellular acidosis conditions. Oncogene. 2009-01-08 [PMID: 18806831]

Klaus C, Kaemmerer E, Reinartz A et al. TP53 status regulates ACSL5-induced expression of mitochondrial mortalin in enterocytes and colorectal adenocarcinomas. Cell Tissue Res. 2014-04-29 [PMID: 24770931]

Klaus C, Schneider U, Hedberg C et al. Modulating effects of acyl-CoA synthetase 5-derived mitochondrial Wnt2B palmitoylation on intestinal Wnt activity. World J Gastroenterol. 2014-10-28 [PMID: 25356045]

Tripodi D, Quemener S, Renaudin K et al. Gene expression profiling in sinonasal adenocarcinoma. BMC Med Genomics;2:65. 2009-11-10 [PMID: 19903339]

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Products Related to H00051703-M01

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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