

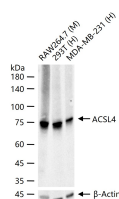
bsm-62432R**[Primary Antibody]****Bioss**
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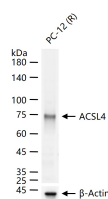
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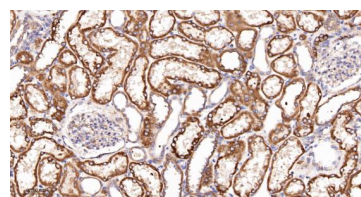
400-901-9800

ACSL4 Recombinant Rabbit mAb**DATASHEET****Host:** Rabbit**Clonality:** Recombinant**GeneID:** 2182**Target:** ACSL4**Isotype:** IgG**CloneNo.:** 1G12**SWISS:** O60488**Immunogen:** A synthesized peptide derived from human ACSL4: 650-691.**Purification:** affinity purified by Protein A**Storage:** 10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol. Store at 4°C for short term. Store at -20°C for long term. Avoid repeated freeze/thaw cycles.**Background:** Catalyzes the conversion of long-chain fatty acids to their active form acyl-CoA for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially activates arachidonate and eicosapentaenoate as substrates.**Applications:** **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
IP (1:50-100)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 79 kDa**Observed MW.:** 75 kDa**Subcellular Location:** Cell membrane ,Cytoplasm**VALIDATION IMAGES**

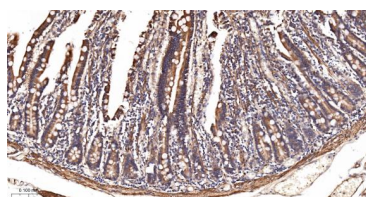
25 ug total protein per lane of various lysates (see on figure) probed with ACSL4 monoclonal antibody, unconjugated (bsm-62432R) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation ACSL4 Monoclonal Antibody, Unconjugated(bsm-62432R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Duodenum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation ACSL4 Monoclonal Antibody, Unconjugated(bsm-62432R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=4.9]** Bin Huang. et al. Sculpting Liver-Related Injury in Type 2 Diabetes Mellitus: Decoding Serum Ferritin's Correlation and Ferroptosis Pathways. J NUTR BIOCHEM. 2025 Jul;:110044 IHC ;Mouse. 40716618

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

- **[IF=4.2]** Zhaobai Lao. et al. Vertebral Osteoporosis in Systemic Lupus Erythematosus: A Possible Involvement of Inflammation-Related Osteoblast Ferroptosis. J INFLAMM RES. 2025 Apr IF ;Mouse. 40303004
- **[IF=4.1]** Yuchen Cai. et al. Deciphering mitochondrial dysfunction in keratoconus: Insights into ACSL4 from machine learning-based bulk and single-cell transcriptome analyses and experimental validation. COMPUT STRUCT BIOTEC. 2025 Jan;27:1962 WB ;Human. 40496889
- **[IF=2.5]** Caixia Deng. et al. Molecular typing of sepsis-induced acute lung injury and its relationship with the immune microenvironment. J RADIAT RES APPL SC. 2026 Jun;19(2):102293 WB ;Rat. 10.1016/j.jrras.2026.102293