

**bs-3787R****[ Primary Antibody ]****SCD Rabbit pAb****Bioss**  
**ANTIBODIES**

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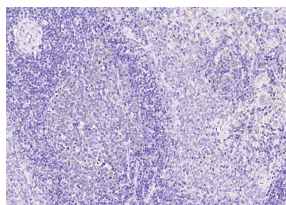
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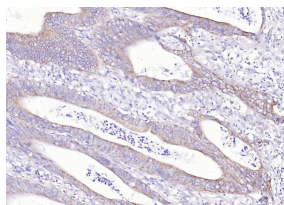
400-901-9800

**— DATASHEET —**

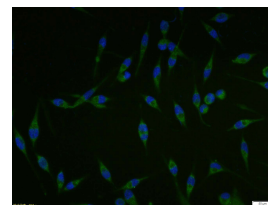
<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 6319 <b>Target:</b> SCD <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human SCD: 265-359/359. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> This gene encodes an enzyme involved in fatty acid biosynthesis, primarily the synthesis of oleic acid. The protein belongs to the fatty acid desaturase family and is an integral membrane protein located in the endoplasmic reticulum. Transcripts of approximately 3.9 and 5.2 kb, differing only by alternative polyadenylation signals, have been detected. A gene encoding a similar enzyme is located on chromosome 4 and a pseudogene of this gene is located on chromosome 17. [provided by RefSeq, Sep 2015]	<b>Isotype:</b> IgG <b>SWISS:</b> O00767	<b>Applications:</b> IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ICC/IF (1:100) <b>Reactivity:</b> Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Dog) <b>Predicted MW.:</b> 41 kDa <b>Subcellular Location:</b> Cell membrane ,Cytoplasm
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**— VALIDATION IMAGES —**

Paraformaldehyde-fixed, paraffin embedded (rat spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SCD1) Polyclonal Antibody, Unconjugated (bs-3787R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SCD1) Polyclonal Antibody, Unconjugated (bs-3787R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



A431 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (SCD1) polyclonal Antibody, Unconjugated (bs-3787R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

**— SELECTED CITATIONS —**

- **[IF=9.8]** Yanghuan Yu. et al. MiRNA-seq and mRNA-seq revealed the mechanism of fluoride-induced cauda epididymal injury. SCI TOTAL ENVIRON. 2024 Jun;930:172895 WB ;Mouse. 38697545
- **[IF=9.685]** Wang, Nan. et al. USP7- and PRMT5-dependent G3BP2 stabilization drives de novo lipogenesis and tumorigenesis of HNSC. CELL DEATH DIS. 2023 Mar;14(3):1-13 WB ;Human. 36878903

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

- **[IF=6.1]** Jiangtao Huang. et al. Enhancement of PPAR $\alpha$ -Inhibited Leucine Metabolism-Stimulated  $\beta$ -Casein Synthesis and Fatty Acid Synthesis in Primary Bovine Mammary Epithelial Cells. J AGR FOOD CHEM. 2023;XXXX(XXX):XXX-XXX WB ;Bovine. 37853551
- **[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=5.6]** Yating Fan. et al.  $\beta$ -Sitosterol Suppresses Lipopolysaccharide-Induced Inflammation and Lipogenesis Disorder in Bovine Mammary Epithelial Cells. INT J MOL SCI. 2023 Jan;24(19):14644 WB ;Bovine. 37834091