

[Primary Antibody]



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Insig1 Rabbit pAb

— DATASHEET

Host: Rabbit

Isotype: IgG

Applications: WB (1:500-2000)

Clonality: Polyclonal

GeneID: 3638

Target: Insig1

Immunogen: KLH conjugated synthetic peptide derived from human Insig1: 101-200/277.

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.

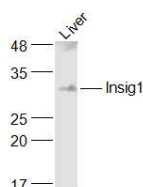
Background: Oxysterols regulate cholesterol homeostasis through liver X receptor (LXR) and sterol regulatory element binding protein (SREBP) mediated signaling pathway. Insig1 is an insulin-induced gene. It encodes an endoplasmic reticulum (ER) membrane protein that plays a critical role in regulating cholesterol concentrations in cells. Insig1 binds to the sterol-sensing domains of SREBP cleavage-activating protein (SCAP) and HMG CoA reductase, and is essential for the sterol-mediated trafficking of the two proteins. It may also play a role in growth and differentiation of tissues involved in metabolic control, and may play a regulatory role during G0/G1 transition of cell growth.

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Sheep, Cow, Chicken, Dog)

Predicted
MW: 30 kDa

Subcellular Location: Cell membrane ,Cytoplasm

— VALIDATION IMAGES



Sample: Liver (Mouse) Lysate at 40 ug Primary:

Anti-Insig1 (bs-5074R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at

1/20000 dilution Predicted band size: 30 kD

Observed band size: 30 kD

— SELECTED CITATIONS

- **[IF=5.6]** Lu Zhu. et al. Fatty Acid Desaturation Is Suppressed in Mir-26a/b Knockout Goat Mammary Epithelial Cells by Upregulating INSIG1. INT J MOL SCI. 2023 Jan;24(12):10028 WB ;Sheep. 37373175
- **[IF=5.168]** Yu et al. LncRNA as ceRNAs may be involved in lactation process. (2017) Oncotarget. 8:98014-98028 IF ;Goat. 29228670
- **[IF=4.9]** Xingtong Chen. et al. Animal Model Screening for Hyperlipidemic ICR Mice..INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES.2025 Feb 27;26(5):2142. Western blot ;Mouse. 40076768
- **[IF=3.9]** Wang et al. MicroRNA-26a/b and their host genes synergistically regulate triacylglycerol synthesis by targeting the INSIG1 gene. (2016) RNA.Bio. 13:500-10 WB ;goat. 27002347
- **[IF=4.192]** Huang L et al. CRISPR/Cas9 Based Knockout of miR-145 Affects Intracellular Fatty Acid Metabolism by Targeting INSIG1 in Goat Mammary Epithelial Cells. J Agric Food Chem . 2020 May 6;68(18):5138-5146. WB ;goat.

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

