bs-4063R **[Primary Antibody]**

phospho-HMGCR (Ser872) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3156 **SWISS:** P04035

Target: HMGCR (Ser872)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human HMGCR around the phosphorylation site of Ser872: NR(p-S)KI.

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: HMG-CoA reductase is the rate-limiting enzyme for cholesterol synthesis and is regulated via a negative feedback mechanism mediated by sterols and non-sterol metabolites derived from mevalonate, the product of the reaction catalyzed by reductase. Normally in mammalian cells this enzyme is suppressed by cholesterol derived from the internalization and degradation of low density lipoprotein (LDL) via the LDL receptor. Competitive inhibitors of the reductase induce the expression of LDL receptors in the liver, which in turn increases the catabolism of plasma LDL and lowers the plasma concentration of cholesterol, an important determinant of atherosclerosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

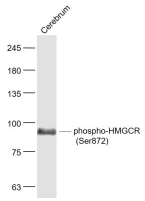
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)
ELISA (1:5000-10000)

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

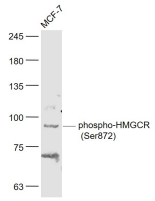
Predicted MW.: 97 kDa

Subcellular Location: Cell membrane ,Cytoplasm

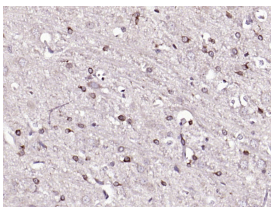
VALIDATION IMAGES



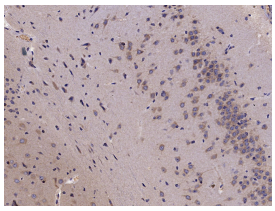
Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti- phospho-HMGCR (Ser872) (bs-4063R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 97 kD Observed band size: 97 kD



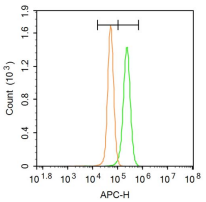
Sample: MCF-7(Human) Cell Lysate at 30 ug Primary: Anti- phospho-HMGCR (Ser872) (bs-4063R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 97 kD Observed band size: 97 kD



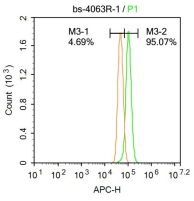
Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-HMGCR (Ser872)) Polyclonal Antibody, Unconjugated (bs-4063R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded



Blank control: A431. Primary Antibody (green



Blank control (Black line): A431 (Black). Primary

(Mouse brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (phospho-HMGCR (Ser872)) Polyclonal Antibody, Unconjugated (bs-4063R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.

line): Rabbit Anti-HMGCR antibody (bs-4063R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody: Goat anti-rabbit IgG-AF647 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Antibody (green line): Rabbit Anti-HMGCR antibody (bs-4063R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature.Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=7.7]** Ying-Xian Ma. et al. Porcine reproductive and respiratory syndrome virus activates lipid synthesis through a ROS-dependent AKT/PCK1/INSIG/SREBPs axis. INT J BIOL MACROMOL. 2024 Oct;:136720 WB ;Monkey. 39433189
- **[IF=7.7]** Meng-Pan Cai. et al. Role of Rab35 in modulating lipid metabolism and viral entry during pseudorabies virus infection. INT J BIOL MACROMOL. 2024 Dec;282:137492 WB ;Pig. 39528177
- **[IF=7.171]** Peng-Wei Yu. et al. EGCG Restricts PRRSV Proliferation by Disturbing Lipid Metabolism | Microbiology Spectrum. MICROBIOL SPECTR. 2022 Apr;: WB ;Monkey. 35404086
- **[IF=5.5]** Xiu-Qing Li. et al. Pseudorabies virus manipulates mitochondrial tryptophanyl-tRNA synthetase 2 for viral replication. VIROL SIN. 2024 Apr;: WB ;Pig. 38636706
- **[IF=4.966]** Ying F et al. EP4 emerges as a novel regulator of bile acid synthesis and its activation protects against hypercholesterolemia.Biochim Biophys Acta Mol Cell Biol Lipids. 2018 Sep;1863(9):1029-1040. WB ;Mouse. 29890224