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## GPR7 Rabbit pAb

Catalog Number: bs-8618R

Target Protein: GPR7

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

Reactivity: Mouse (predicted:Human)

Predicted MW: 59 kDa

Subcellular: Cell membrane

Locations:

Entrez Gene: 10936

Swiss Prot: O95800

Source: KLH conjugated synthetic peptide derived from human GPR7: 1-100/540.

Purification: affinity purified by Protein A

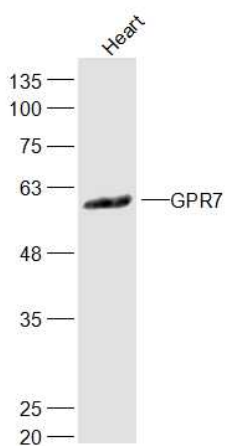
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** The two G protein-coupled receptors GPR7 and GPR8 display high similarity to each other. They both show high expression in brain and in particular in hypothalamus, and have been characterized as receptors for neuropeptide W (NPW) and neuropeptide B (NPB). In response to NPW and NPB, they play a role in the regulation of feeding behavior. GPR7 deficient mice develop an adult-onset obese phenotype that progressively worsens with age and is exacerbated when fed a high-fat diet. The genes encoding human GPR7 and GPR8 map to chromosomes 10q11.2-q21.1 and 10q13.3, respectively.

## VALIDATION IMAGES

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Sample: Heart (Mouse) Lysate at 40 ug Primary: Anti-GPR7 (bs-8618R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 59 kD Observed band size: 59 kD

## PRODUCT SPECIFIC PUBLICATIONS

**[IF=6.208]** Shashank Pandey. et al. Regulation of Prepro-NeuropeptideW/B and Its Receptor in the Heart of ZDF Rats: An Animal Model of Type II DM. INT J MOL SCI. 2022 Jan;23(23):15219 **WB ; Rat** . 36499546

**[IF=6.208]** Tatiana Wojciechowicz. et al. The Effects of Neuropeptide B on Proliferation and Differentiation of Porcine White Preadipocytes into Mature Adipocytes. INT J MOL SCI. 2023 Jan;24(7):6096 **WB ; Pig** . 37047072

**[IF=4.556]** Shashank Pandey. et al. Identification of NPB, NPW and Their Receptor in the Rat Heart. Int J Mol Sci. 2020 Jan;21(21):7827 **WB,IF ; Rat** . 33105700

**[IF=4.369]** T. Wojciechowicz. et al. Neuropeptide B promotes differentiation of rodent white preadipocytes into mature adipocytes. MOL CELL ENDOCRINOL. 2023 Jan;:111850 **WB ; Rat** . 36623583

**[IF=3.3]** Shashank Pandey. et al.Role of Neuropeptide B/W Signaling in Modulating Intracellular Calcium in Human Skin Fibroblasts.frontiers in bioscience (landmark edition).2025 Feb 20;30(2):26760. **Western Blot ; Human** . 40018932