bs-8618R

[Primary Antibody]

GPR7 Rabbit pAb



- DATASHEET -Host: Rabbit Isotype: IgG Applications: WB (1:500-2000) Clonality: Polyclonal Reactivity: Mouse (predicted: Human) GeneID: 10936 SWISS: 095800 Target: GPR7 Predicted 59 kDa Immunogen: KLH conjugated synthetic peptide derived from human GPR7: 1-100/540. < Extracellular > MW.: Purification: affinity purified by Protein A Subcellular Location: Cell membrane 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: 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



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

- SELECTED CITATIONS -

- [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