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# Rabbit Anti-GPR7 antibody

SL8618R

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| **Product Name:** | GPR7 |
| **Chinese Name:** | G protein-coupled receptor7抗体 |
| **Alias:** | GPCR GPR7; G protein coupled receptor 7; g protein coupled receptor gpr7; GPR7; MGC129755; Neuropeptides B and W receptor 1; Neuropeptides B/W receptor 1; Neuropeptides B/W receptor type 1; NPB and NPW receptor 1; NPBWR1; opioid somatostatin like receptor 7. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse, |
| **Applications:** | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 59kDa |
| **Cellular localization:** | The cell membrane |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human GPR7:1-100/540<Extracellular> |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **PubMed:** | PubMed |
| **Product Detail:** | 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.

**Function:**
GPR7 interacts specifically with a number of opioid ligands. It is a receptor for neuropeptides B and W, which may be involved in neuroendocrine system regulation, food intake and the organization of other signals, and has a higher affinity for neuropeptide B. It has been reported in brain, mainly cerebellum and frontal cortex, and in the pituitary (O'Dowd et al., 1995). The mouse ortholog of GPR7 was shown by in situ hybridization to be expressed in discrete nuclei of brain, namely suprachiasmatic, arcuate, and ventromedial nuclei of hypothalamus.

**Subcellular Location:**
Cell membrane; Multipass membrane protein.

**SWISS:**
O95800

**Gene ID:**
10936

**Database links:**

Entrez Gene: 428544Chicken

Entrez Gene: 539470Cow

Entrez Gene: 101130191Gorilla

Entrez Gene: 100066961Horse

Entrez Gene: 10936Human

Entrez Gene: 237716Mouse

Entrez Gene: 100517153Pig

Entrez Gene: 100347723Rabbit

Entrez Gene: 498434Rat

Omim: 606704Human

SwissProt: O95800Human

SwissProt: Q6X632Mouse

Unigene: 40763Human

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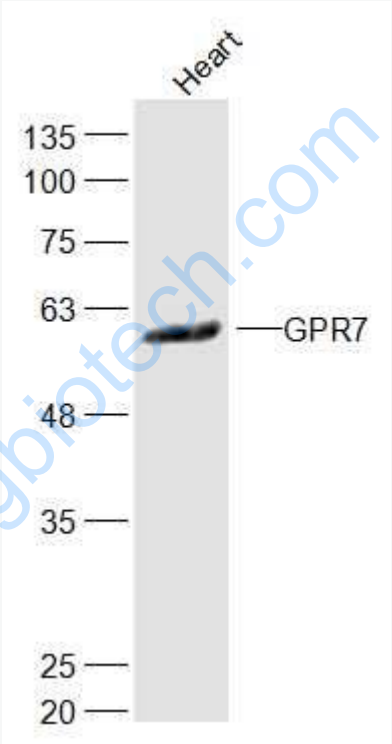
| | Unigene: 338361Mouse<br><br>Unigene: 484157Mouse<br><br>**Important Note:**<br>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Picture:** |  <br>Sample:<br><br>Heart (Mouse) Lysate at 40 ug<br><br>Primary: Anti-GPR7 (SL8618R) at 1/300 dilution<br><br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution<br><br>Predicted band size: 59 kD<br><br>Observed band size: 59 kD |