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## GPR40 Rabbit pAb

Catalog Number: bs-25839R

Target Protein: GPR40

Concentration: 1mg/ml

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

Reactivity: Mouse, Rat

Predicted MW: 32 kDa

Subcellular Cell membrane

Locations:

Entrez Gene: 2864

Swiss Prot: O14842

Source: KLH conjugated synthetic peptide derived from human GPR40: 200-300/300.

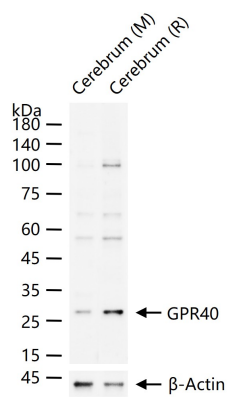
Purification: affinity purified by Protein A

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

**Background:** G protein coupled receptors provide attractive targets for drug therapy due to the sheer size and diversity of ligands within this receptor family. G protein-coupled receptor 40 (GPR40) functions as a cell-surface receptor for long-chain free fatty acids (FFAs). FFAs provide an important energy source, but also function as signaling molecules in various pathways, notably the process of insulin secretion. In pancreatic tissue, the interaction of long chain FFAs with GPR40 amplifies glucose-stimulated insulin secretion from beta cells, suggesting a possible role for GPR40 in the treatment of diabetes associated with insulin-deficiency. Specifically, the Arg211His polymorphism in the GPR40 gene may contribute to the variation of insulin secretory capacity in Japanese men. Also, GPR40 may be involved in the control of breast cancer cell growth by fatty acids and, therefore, provide a link between fat and cancer.

### VALIDATION IMAGES

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25 ug total protein per lane of various lysates (see on figure) probed with GPR40 polyclonal antibody, unconjugated (bs-25839R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.