

GPR55 Rabbit pAb

Catalog Number: bs-7686R

Target Protein: GPR55

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (2ug/Test)

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

Predicted MW: 37 kDa

Entrez Gene: 9290

Swiss Prot: Q9Y2T6

Source: KLH conjugated synthetic peptide derived from human GPR55: 141-240/319.

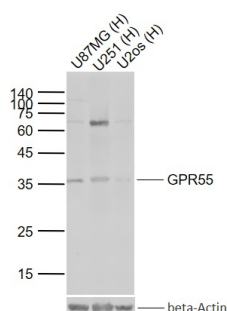
Purification: affinity purified by Protein A

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

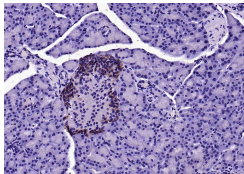
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: G protein-coupled receptors (GPCRs, or GPRs) contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins. GPCR GPR55 is a member of this family (subfamily Orphan-A). It has been reported to be expressed in the brain, where mRNA transcripts were detected in the caudate nucleus and putamen, but not detected in the hippocampus, thalamus, pons cerebellum, frontal cortex of the brain. ESTs have been isolated from liver/spleen libraries.

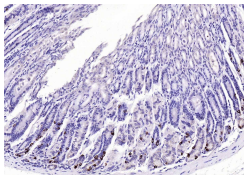
VALIDATION IMAGES



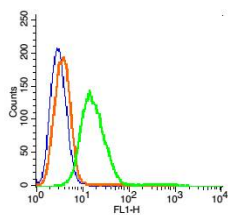
Sample: Lane 1: Human U87MG cell lysates Lane 2: Human U251 cell lysates Lane 3: Human U208 cell lysates
Primary: Anti-GPR55 (bs-7686R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 37 kD Observed band size: 37 kD



Paraformaldehyde-fixed, paraffin embedded (rat pancreas); 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 (GPR55) Polyclonal Antibody, Unconjugated (bs-7686R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse stomach); 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 (GPR55) Polyclonal Antibody, Unconjugated (bs-7686R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: RSC96 Cells(blue). Primary Antibody: Rabbit Anti-GPR55/AF488 Conjugated antibody (bs-7686R-AF488), Dilution: 5µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/AF488(orange), used under the same conditions.

PRODUCT SPECIFIC PUBLICATIONS

[IF=6.8] He Yi. et al. GPR55 is expressed in glutamate neurons and functionally modulates drug taking and seeking in rats and mice. TRANSL PSYCHIAT. 2024 Feb;14(1):1-12 Other ; . 38374108

[IF=2.537] Rodolfo Sánchez-Zavaleta. et al. Presynaptic nigral GPR55 receptors stimulate [3H]-GABA release through [3H]-cAMP production and PKA activation and promote motor behavior. SYNAPSE. 2022 Jul;: WB ; Rat, Human . 35831708