Human Monoclonal Antibody Anti Human GFRAL (Q51)

Human Monoclonal Antibody

Catalog Number: 21A110H-B Size: 100 ug Host: Human Isotype: Human IgG1

Description

Human Monoclonal Antibody Anti-Human GFRAL (Q51) is a monoclonal antibody developed to specifically recognize human GDNF family receptor alpha-like (GFRAL), a key receptor in the GDF15 signaling pathway. This antibody targets the region of GFRAL associated with the interaction with the co-receptor RET, an essential component required for signal transduction. Upon ligand binding, GDF15 interacts with GFRAL and promotes the recruitment of RET to form an active receptor complex, which subsequently activates downstream signaling pathways involved in energy balance, appetite regulation, and metabolic homeostasis.

This antibody functions as a competitive blocking antibody that inhibits the GFRAL–RET interaction, thereby preventing co-receptor recruitment and receptor complex formation. It is suitable for studies requiring disruption of receptor/co-receptor assembly, including mechanistic interrogation of GDF15 pathway activation, receptor-binding inhibition assays, and target validation experiments.

Applications

- Competitive binding / blocking assays: GFRAL–RET interaction
- Functional pathway studies involving GDF15–GFRAL–RET signaling (format-dependent)
- Target validation / mechanism-of-action studies
- Optional: ELISA / CLIA development (format-dependent)

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Host Species	Human
Formulation	PBS pH 7.4
Preparation	The antibody was purified by affinity chromatography under optimal conditions.
Concentration	1 mg/mL
Storage & Handling	The antibody should be stored in -80 °C.
Application	Suitable for GFRAL immunoassay development and detection of human GFRAL in biological samples.
Recommended Usage	This antibody specifically recognizes human GFRAL and can be used to study GFRAL receptor expression and receptor–co-receptor interactions.

Product Data

Indirect ELISA Result

-Antigen Coating Human GFRAL protein 1 µg/mL

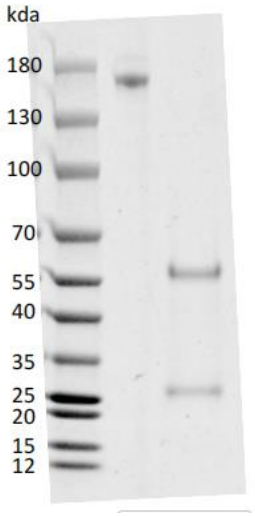
-Primary Antibody Human Monoclonal Anti-Human GFRAL (RET)

-Secondary Antibody HRP-conjugated Anti-Human IgG (H+L) 1:5000

-Substrate TMB, 15 minutes

STD (µg/mL)	OD450
1	OVERFLOW
1/4	2.31
$1/4^2$	1.52
$1/4^3$	1.02
$1/4^4$	0.61
$1/4^5$	0.36
$1/4^6$	0.20
Blank	0.083

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