Anti-GLP1R Antibody

Alternative Names: GLP-1, GLP-1-R, GLP-1R

Catalogue Number: AB18-10050

Size: 100ug

Background Information

Glucagon-like peptide-1 receptor (GLP1R) is a 7-transmembrane receptor protein found on beta cells of the pancreas. It functions as a receptor for glucagon-like peptide 1 (GLP-1) hormone, which stimulates glucose-induced insulin secretion. GLP1R functions at the cell surface and becomes internalised in response to GLP-1 and GLP-1 analogues, playing an important role in the signalling cascades leading to insulin secretion. It is a member of the glucagon receptor family of G protein-coupled receptors [1]. GLP1R is composed of two domains, an extracellular domain that binds the C-terminal helix of GLP-1 [2], and a transmembrane domain [3] that binds the N-terminal region of GLP-1 [4][5][6].

GLP1R also displays neuroprotective effects in animal models. Polymorphisms in this gene are associated with diabetes, making it an important drug target for the treatment of type 2 diabetes. Alternative splicing of the GLP1R gene results in multiple transcript variants.

Product Information

Antibody Type:	Polyclonal	**Host:**	Rabbit
Isotype:	IgG	**Species Reactivity:**	Human, Mouse, Rat
Format:	100 µg in 100 µl PBS containing 0.02% sodium azide		
Storage Conditions:	6 months: 4˚C. Long-term storage: -20˚C. Avoid multiple freeze and thaw cycles.		
Immunogen:	Recombinant human GLP1R		
Applications:	WB 1:500-2000		

Additional Information

Subcellular location:	Cell membrane Multi-pass protein	**MW:**	53kDa
Gene ID	2740	**Uniprot ID:**	P43220

References

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3. Song G, Yang D, Wang Y, de Graaf C, Zhou Q, Jiang S, Liu K, Cai X, Dai A, Lin G, Liu D, Wu F, Wu Y, Zhao S, Ye L, Han GW, Lau J, Wu B, Hanson MA, Liu ZJ, Wang MW, Stevens RC (2017). "Human GLP-1 receptor transmembrane domain structure in complex with allosteric modulators)". Nature. 546: 312–315.

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