

Datasheet for ABIN7043220

## anti-GLP1R antibody (Extracellular) (FITC)



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### 2 Images

#### Overview

Quantity:	50 µL
Target:	GLP1R
Binding Specificity:	AA 288-301, Extracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLP1R antibody is conjugated to FITC
Application:	Live Cell Imaging (LCI), Flow Cytometry (FACS)

#### Product Details

Purpose:	A Rabbit Polyclonal Antibody to Glucagon-like Peptide 1 Receptor Conjugated to the Fluorescent Dye FITC
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KYL YEDEG(S)WTRNS, corresponding to amino acid residues 288-301 of rat GLP1R
Isotype:	IgG
Specificity:	2nd extracellular loop
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Rat,mouse,human - 13,14 amino acid residues identical
Characteristics:	Anti-GLP1R (extracellular) Antibody (ABIN7043219, ABIN7044406 and ABIN7044407) is a highly

## Product Details

specific antibody directed against an epitope of the rat Glucagon-like peptide 1 receptor. The antibody can be used in western blot, immunohistochemistry, immunocytochemistry, and live cell imaging applications. It has been designed to recognize GLP1R from human, rat, and mouse samples. \nAnti-GLP1R (extracellular)-FITC Antibody (ABIN7043219, ABIN7044406 and ABIN7044407)-F is directly conjugated to fluorescein isothiocyanate (FITC). This labeled antibody can be used in immunofluorescent applications such as direct live cell flow cytometry.

Purification: Affinity purified on immobilized antigen.

## Target Details

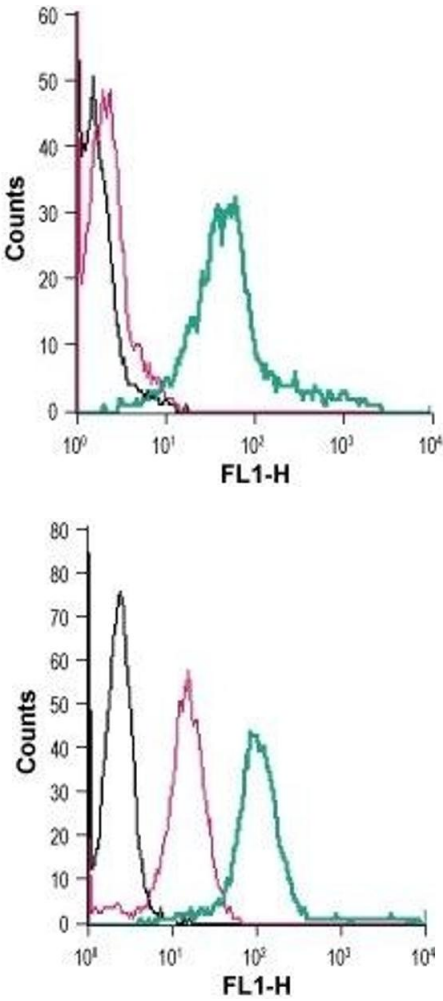
Target:	GLP1R
Alternative Name:	GLP1R ( <a href="#">GLP1R Products</a> )
Background:	<p>Glucagon-like peptide 1 receptor, GLP-1 receptor,Glucagon-like peptide 1 (GLP-1) is a hormone secreted by the intestine following a meal<sup>1</sup>. This hormone is known to enhance the secretion of insulin, important to regulate glucose blood levels<sup>2,3</sup>. In pancreatic b-cells, other than stimulating insulin secretion, GLP-1 action is also important for b-cell mass expansion<sup>2</sup>.GLP-1 exerts its biological functions through Glucagon-like peptide 1 receptor (GLP-1 receptor), a member of the G-protein coupled receptor superfamily. Like all members this receptor spans the membrane seven times. GLP-1 receptor couples with Gs, thereby stimulates adenylate cyclase which consequently leads to an increase in cAMP<sup>2</sup>.The receptor is expressed in various tissues, namely the pancreas, adipose tissue, muscle, heart, gastrointestinal tract and liver. GLP-1 receptor is also found in the central nervous system where it provides a neuroprotective effect<sup>4</sup>.The glucagon-like peptide 1 system may serve as a therapeutic treatment in diabetes mellitus, in order to maintain b-cell mass expansion<sup>2</sup>. In addition, the receptor may serve as a therapy target in various neurodegenerative diseases like Alzheimer's and Parkinson's disease<sup>4</sup>.</p> <p>Alternative names: GLP1R, Glucagon-like peptide 1 receptor, GLP-1 receptor</p>
Gene ID:	25051
NCBI Accession:	<a href="#">NM_002062</a>
UniProt:	<a href="#">P32301</a>
Pathways:	<a href="#">Positive Regulation of Peptide Hormone Secretion</a> , <a href="#">Hormone Transport</a> , <a href="#">cAMP Metabolic Process</a> , <a href="#">Feeding Behaviour</a>

## Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: N/A
Comment:	Negative Control: (ABIN7582044) Blocking Peptide: (ABIN7235607)
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	15 µL or 50 µL double distilled water (DDW), depending on the sample size.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 1 % BSA with 0.05 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.  Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



Flow Cytometry

**Image 1.** Cell surface detection of GLP1R in live intact human MEG-01 megakaryoblastic leukemia cells: (black line) Cells.(red line) Cells + Rabbit IgG isotype control-FITC.(green line) Cells + Anti-GLP1R (extracellular)-FITC Antibody (ABIN7043220, ABIN7045532, ABIN7045533 and ABIN7045534), (2.5 µg).

Flow Cytometry

**Image 2.** Cell surface detection of GLP1R in live intact human THP-1 monocytic leukemia cells: (black line) Cells.(red line) Cells + Rabbit IgG isotype control-FITC.(green line) Cells + Anti-GLP1R (extracellular)-FITC Antibody (ABIN7043220, ABIN7045532, ABIN7045533 and ABIN7045534), (5 µg).