

Datasheet for ABIN7275146
LGR5 Protein (AA 22-543) (hFc Tag)



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2 Images

Overview

Quantity:	100 µg
Target:	LGR5
Protein Characteristics:	AA 22-543
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This LGR5 protein is labelled with hFc Tag.

Product Details

Purpose:	Human LGR-5 Protein
Sequence:	Gly22-Pro543
Characteristics:	Recombinant Human LGR-5 Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus. It contains Gly22-Pro543.
Purity:	> 90 % as determined by Bis-Tris PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1 EU per µg by the LAL method.
Biological Activity Comment:	Human LGR-5, hFc Tag captured on CM5 Chip via Protein A can bind Human R-Spondin 3, His Tag with an affinity constant of 0.59 nM as determined in SPR assay (Biacore T200). Human LGR-5 on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

Target Details

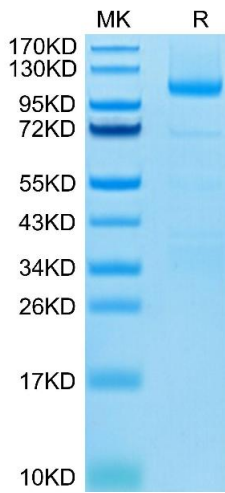
Target:	LGR5
Alternative Name:	LGR-5
Background:	G protein-coupled receptor 5 (LGR5), known as a stem cell marker for colon cancer and gastric cancer, can serve as a novel GSC marker involved in EMT and a therapeutic target in glioma. LGR5 is a new functional GSC marker and prognostic indicator that can promote EMT by activating the Wnt/ β -catenin pathway and would thus be a novel therapeutic target for glioma.
Molecular Weight:	85 kDa. Due to glycosylation, the protein migrates to 110-120 kDa based on Bis-Tris PAGE result.
UniProt:	O75473
Pathways:	WNT Signaling

Application Details

Restrictions:	For Research Use only
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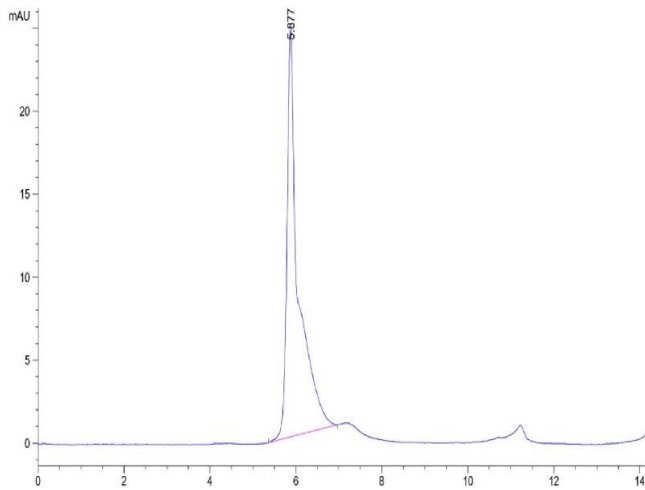
Handling

Format:	Lyophilized
Reconstitution:	Dissolve the lyophilized protein in distilled water. It is recommended to resuspend at 0.5 mg/mL if the lyophilized powder is 100 μ g or less, at 1 mg/mL for 500 μ g or 1 mg lyophilized powder. Do not mix by vortex or vigorous shaking.
Buffer:	Lyophilized from 0.22 μ m filtered solution in PBS, 5 mM DTT (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C, -80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3 months after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

Image 1. Human LGR-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human LGR-5 is greater than 95 % as determined by SEC-HPLC.