

Datasheet for ABIN1381741

anti-LGR4 antibody**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	LGR4
Reactivity:	Human, Mouse
Host:	Rat
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS), Cell-ELISA (cELISA)

Product Details

Immunogen:	genetic immunisation with cDNA encoding human LGR4
Clone:	BBX-3A8
Isotype:	IgG2a kappa
Specificity:	Anti-human LGR4
Cross-Reactivity:	Mouse (Murine)
Characteristics:	Selection: Based on recognition of the complete native protein expressed on transfected mammalian cells
Purification:	Protein G

Target Details

Target:	LGR4
Alternative Name:	LGR4 (LGR4 Products)

Target Details

Background: LGR4 (Leucine-rich repeat- containing G protein-coupled receptor 4, GPR48) belongs to the superfamily of G protein-coupled receptors (GPCRs). It is a 951 amino acid multi-pass membrane protein and has multiple N-terminal leucine-rich repeats, which are important for interaction with the glycoprotein ligands, and 7 transmembrane domains. LGR4 is highly expressed in the adult human pancreas but also with moderate levels of expression in placenta, kidney, brain and heart. LGR4 functions as an orphan receptor that may be involved in physiologic activities throughout the cell. It is overexpressed in various cancer types and is thought to enhance carcinoma invasiveness and metastasis, suggesting an important role in tumor progression.

UniProt: [Q9BXB1](#)

Application Details

Application Notes: Flow cytometry: 1.2 µg/10⁶ cells
CELISA: 1:200 - 1:400
For each application a titration should be performed to determine the optimal concentration.

Comment: Synonyms: GPR48

Restrictions: For Research Use only

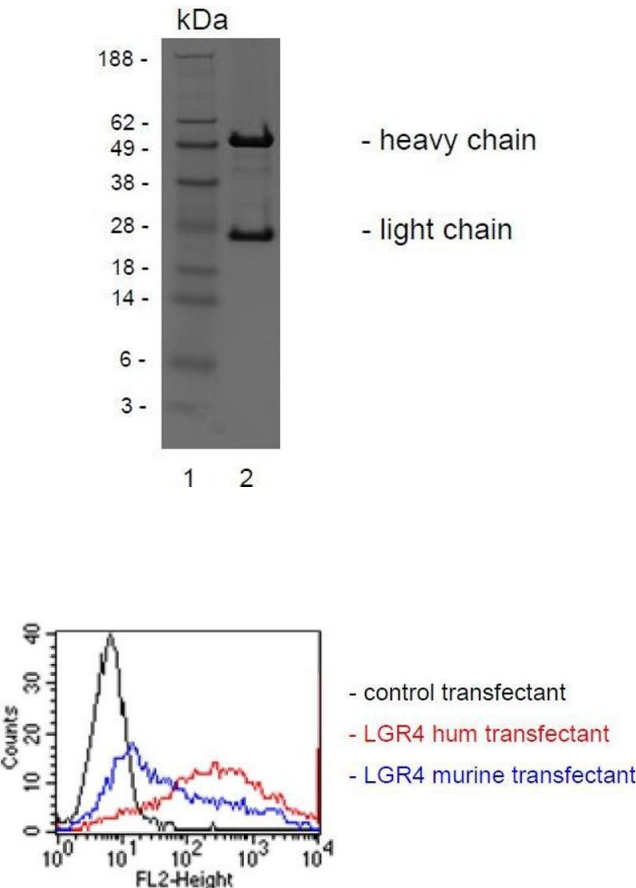
Handling

Buffer: PBS, pH 7.2

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C

Storage Comment: short term: 2 °C - 8 °C, long term: -20 °C



SDS-PAGE

Image 1. SDS-PAGE analysis of purified BBX-3A8 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified BBX-3A8 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.

Flow Cytometry

Image 2. FACS analysis of BOSC23 cells using BBX-3A8. BOSC23 cells were transiently transfected with an expression vector encoding either LGR4-hum (red curve), LGR4-murine (blue curve) or an irrelevant protein (control transfectant: black curve). Binding of BBX-3A8 was detected with a PE-conjugated secondary antibody. A positive signal was obtained with LGR4- hum and LGR4-mur transfected cells.