

Rat anti-Human, Mouse LGR4 Monoclonal Antibody | anti-LGR4 antibody

Anti-LGR4 (GPR48) monoclonal antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71477	Rat	Human, Mouse	ELISA, Flow Cytometry, Functional Assay

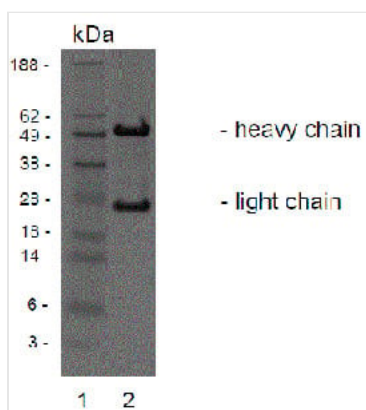
PRODUCT SYNONYMS

LGR4; Monoclonal Antibody; Anti-LGR4 (GPR48) monoclonal antibody; GPR48; anti-LGR4 antibody

PRODUCT SPECIFICATIONS

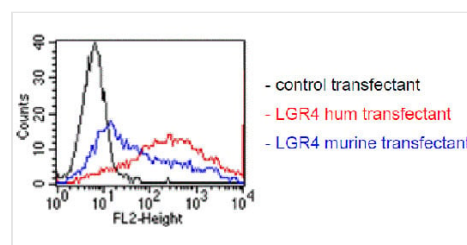
Host	Rat
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	BBX-3A8
Specificity	anti-human LGR4, cross reactivity with murine LGR4
Purity/Purification	Protein G
Sequence Length	951
Applicable Applications for anti-LGR4 antibody	ELISA (Competitive ELISA), FCM/FACS (Flow Cytometry)
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunization with cDNA encoding human LGR4
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)

IMAGES



SDS-PAGE

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



Application Data

Fig.1: FACS analysis of BOSC23 cells using BBX-3A8 Cat.# AAA71477. 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.

ADDITIONAL INFORMATION

Related Product Information for anti-LGR4 antibody	Background: LGR4 (Leucine-rich repeat- containing G protein-coupled receptor 4) 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 (1,3). LGR4 is highly expressed in the adult human pancreas but also with moderate levels of expression in placenta, kidney, brain and heart (2). 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.
References	Hsu SY, Liang SG, Hsueh AJ (1998). Characterization of two LGR genes homologous to gonadotropin and thyrotropin receptors with extracellular leucine-rich repeats and a G protein-coupled, seven-transmembrane region. Mol Endocrinol. 12(12):1830-45 Loh ED, Broussard SR, Liu Q, Copeland NG, Gilbert DJ, Jenkins NA, Kolakowski, LF Jr.(2000). Chromosomal localization of GPR48, a novel glycoprotein hormone receptor like GPCR, in human and mouse with radiation hybrid and interspecific backcross mapping. Cytogenet Cell Genet. 89(1-2):2-5 Loh ED, Broussard SR, Kolakowski LF (2001). Molecular characterization of a novel glycoprotein hormone G-protein-coupled receptor. Biochem Biophys Res Commun. 282(3):757-64

NCBI AND UNIPROT INFORMATION

NCBI GI #	157694513
NCBI GeneID	55366
NCBI Accession #	NP_060960.2
NCBI GenBank Nucleotide #	NM_018490.2
UniProt Accession #	Q9BXB1; Q8N537; Q9NYD1; A6NCH3; G5E9B3
NCBI Official Full Name	leucine-rich repeat-containing G-protein coupled receptor 4
NCBI Official Synonym Full Names	leucine-rich repeat containing G protein-coupled receptor 4
NCBI Official Symbol	LGR4
NCBI Official Synonym Symbols	GPR48; BNMD17
NCBI Protein Information	leucine-rich repeat-containing G-protein coupled receptor 4; G protein-coupled receptor 48
UniProt Gene Name	LGR4
UniProt Synonym Gene Names	GPR48
UniProt Entry Name	LGR4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/lgr4-antibody-clone-bbx-3a8-competitive-elisa-flow-cytometry-elisa/71477>