



Anti-Human LGR4 Monoclonal Antibody
Product Code: CABh-25292
Clone: 10C10-C10
For Research Use Only (RUO)

Alternate Names	BNMD17, GPR48, DPSL
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human Leucine-rich repeat-containing G-protein coupled receptor 4 (LGR4), also called BNMD17, GPR48, and DPSL, is a 7-transmembrane G protein-coupled receptor (GPCR). It is a Class B GPCR. Upon binding R-spondins, LGR4 triggers the canonical Wnt signaling pathway to increase expression of target genes. Unlike most classical G-protein coupled receptors, LGR4 does not activate heterotrimeric G-proteins to transduce the signal. LGR4 is a potential diagnostic biomarker and therapeutic target due to its promotion of tumorigenesis in some cancers. Human LGR4 protein has ~97% and ~93% sequence homology with macaque and mouse LGR4, respectively.

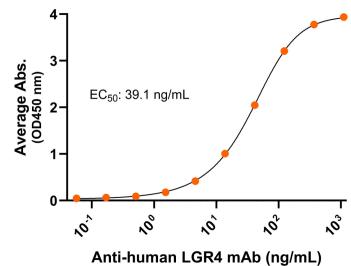
Product Details

Specificity	Human Leucine-rich repeat-containing G-protein coupled receptor 4/LGR4 shows low affinity binding to LGR4 transfected cells by flow cytometry.
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	LGR4 N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # Q9BXB1
Formulation / Storage buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice
Purification	Affinity Enrichment
Stability & Storage	-80°C
Verified Application	ELISA, SPR
Recommended Usage	ELISA: starting concentration 1 µg/mL. LSPR: Recommended maximum concentration, 100 nM.

Bioactive Data, Detection of Antigen by:

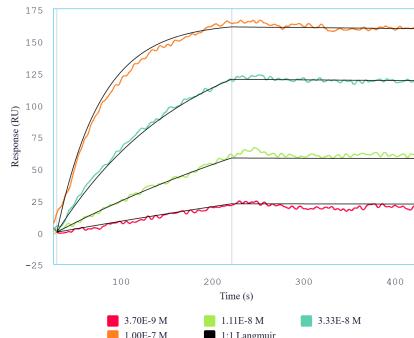
ELISA

Anti-human LGR4 Monoclonal Antibody, ELISA
0.2 μ g of LGR4 protein per well



Immobilized human LGR4 at 2 μ g/mL (100 μ L/well) can bind Mouse Anti-Human LGR4 Monoclonal Antibody (Cat. No. CABh-25292) with half maximal effective concentration (EC50) range of 19.6-78.2 ng/mL (QC tested).

SPR



Immobilized human LGR4 protein can bind Mouse Anti-Human LGR4 Monoclonal Antibody (Cat. No. CABh-25292) with a KD of 0.1-0.4 nM as determined by LSPR (Nicoia Alto).



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Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	Activator of the Wnt signaling pathway required for the development of various organs
Ligand / Receptor	R-spondins
Cell Type	Variable expression in most tissues; over-expressed on cancer cells, for example, lung cancer adenocarcinomas
Molecular Family	G protein-coupled receptor
Gene ID	Q9BXB1