

For Research Use Only

# LGR4 Polyclonal antibody

Catalog Number: 20150-1-AP **6 Publications**



## Basic Information

<b>Catalog Number:</b> 20150-1-AP	<b>GenBank Accession Number:</b> BC033039	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 200 µg/ml by Nanodrop and 227 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 55366	<b>Recommended Dilutions:</b> IHC 1:1000-1:4000
<b>Source:</b> Rabbit	<b>Full Name:</b> leucine-rich repeat-containing G protein-coupled receptor 4	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 104 kDa	
<b>Immunogen Catalog Number:</b> AG13695		

## Applications

<b>Tested Applications:</b> IHC, ELISA	<b>Positive Controls:</b> IHC : human small intestine tissue,
<b>Cited Applications:</b> IHC, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, pig	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

LGR4, also known as GPR48, is a member of the leucine-rich GPCR family. LGR4 is composed of a large NH<sub>2</sub>-terminal extracellular domain containing 18 LRRs, the seven membrane-spanning segments, and a COOH-terminal intracellular domain. LGR4 is a receptor for R-spondins that potentiates the canonical Wnt signaling pathway and is involved in the formation of various organs. It has also been shown that LGR4 regulates cyclic AMP/protein kinase A (PKA) signalling. (PMID: 23756652; 17178856; 24212090)

## Notable Publications

Author	Pubmed ID	Journal	Application
Pingping Zhu	30224759	Nat Cell Biol	WB
Xiaofeng Zhou	34175894	Cell Death Dis	WB
Xuesong Su	34181940	Exp Cell Res	IHC

## Storage

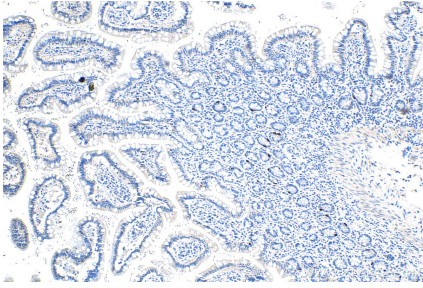
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

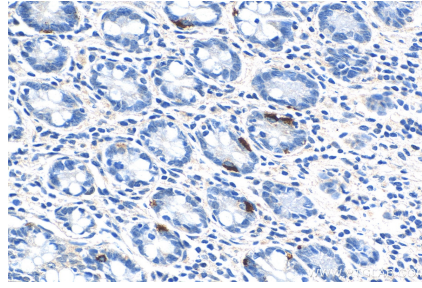
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 20150-1-AP (LGR4 antibody) at dilution of 1:2000 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 20150-1-AP (LGR4 antibody) at dilution of 1:2000 (under 40x lens).