

LGR5 (2G11) monoclonal antibody

Catalog: MB8016

Host: Mouse

Reactivity: Human, Mouse, Rat

BackGround:

G protein-coupled receptors (GPCRs), also designated seven transmembrane (7TM) receptors or heptahelical receptors, interact with G proteins (heterotrimeric GTPases) to synthesize intracellular second messengers, such as diacylglycerol, cyclic AMP, inositol phosphates and calcium ions. Their diverse biological functions range from vision and olfaction to neuronal and endocrine signaling and are involved in many pathological conditions. LGR5 (leucine-rich repeat-containing G protein-coupled receptor 5), also known as GPR49 or GPR67, is a 907 amino acid multi-pass membrane protein that contains 17 leucine-rich repeats and belongs to the G protein-coupled receptor family. Expressed in placenta, skeletal muscle and spinal cord, LGR5 functions as an orphan receptor that is thought to play an important role in embryonic growth control and cellular differentiation. Overexpression of LGR5 is associated with increased tumor susceptibility and malignant transformation, implicating LGR5 as a potent tumor-inducing protein.

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 130 kDa

Swiss-Prot:

O75473

Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

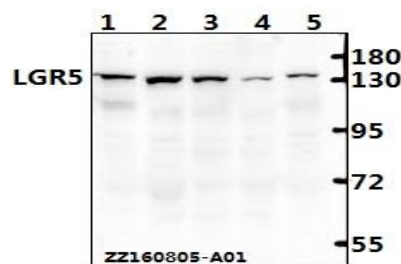
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

LGR5 mAb detects endogenous levels of LGR5 protein.

DATA:



Western blot (WB) analysis of LGR5 mAb at 1:500 dilution

Lane1:Hct116 whole cell lysate(40ug)

Lane2:SGC7901 whole cell lysate(40ug)

Lane3:HeLa whole cell lysate(40ug)

Lane4:PC12 whole cell lysate(40ug)

Lane5:CT-26 whole cell lysate(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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