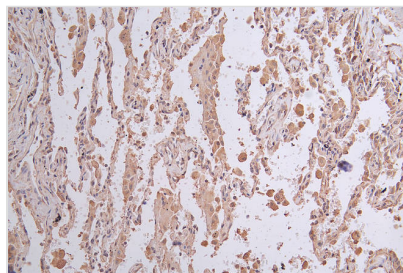




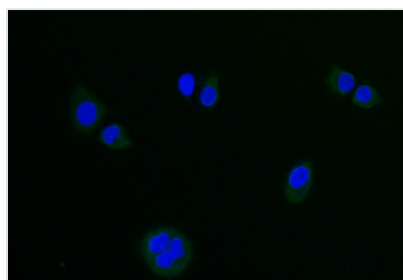
LGR6 Recombinant Monoclonal Antibody

Product Code	CSB-RA156336A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9HBX8
Immunogen	A synthesized peptide derived from Human LGR6
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF, FC; Recommended dilution: IHC:1:50-1:200, IF:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Signal transduction
Gene Names	LGR6
Clone No.	15G3

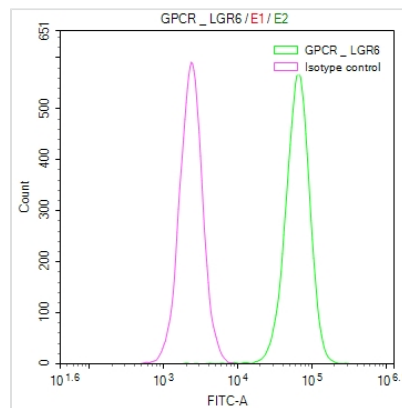
Image



IHC image of CSB-RA156336A0HU diluted at 1:50 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.26% DAB.



Immunofluorescence staining of hela with CSB-RA156336A0HU at 1:20, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 500-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Overlay Peak curve showing Hela cells surface stained with CSB-RA156336A0HU (red line) at 1:50. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody ($1\mu\text{g}/1 \times 10^6$ cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?. Control antibody (green line) was rabbit IgG ($1\mu\text{g}/1 \times 10^6$ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The LGR6 recombinant monoclonal antibody is synthetically generated in vitro, employing a multi-step process. Initially, LGR6 antibody genes are isolated from B cells sourced from immunoreactive rabbits. These LGR6 antibody genes are then amplified and cloned into phage vectors, which are subsequently introduced into mammalian cell lines to facilitate the production of functional antibodies in significant quantities. The resulting LGR6 recombinant monoclonal antibody is purified from the culture supernatant of these transfected cell lines through affinity chromatography. It is well-suited for various applications, including ELISA, IHC, IF, and FC, enabling the precise detection of human LGR6 protein.

LGR6 is a cell-surface receptor protein involved in the regulation of tissue development, regeneration, and stem cell maintenance in various tissues, including the skin, hair follicles, and mammary glands. Its role in maintaining stem cell populations and regulating tissue homeostasis is crucial for normal tissue function and repair.