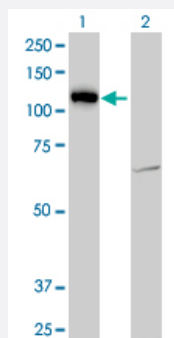


# LLGL2 monoclonal antibody (M06), clone 4G2

Catalog # H00003993-M06

Size 100 ug

## Applications

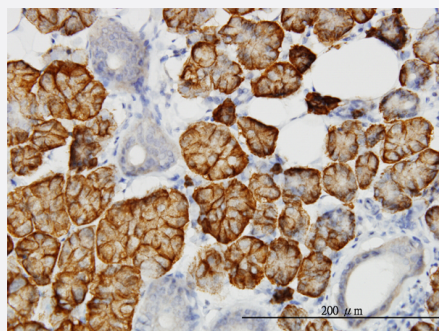


### Western Blot (Transfected lysate)

Western Blot analysis of LLGL2 expression in transfected 293T cell line by LLGL2 monoclonal antibody (M06), clone 4G2.

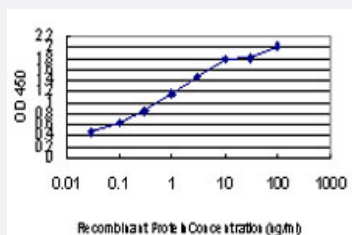
Lane 1: LLGL2 transfected lysate(113 KDa).

Lane 2: Non-transfected lysate.



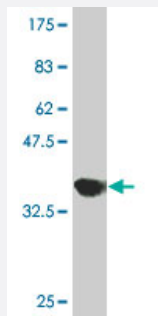
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to LLGL2 on formalin-fixed paraffin-embedded human salivary gland. [antibody concentration 1 ug/ml]



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged LLGL2 is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.63 KDa) .

## Specification

|                                |                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Mouse monoclonal antibody raised against a partial recombinant LLGL2.                                              |
| <b>Immunogen</b>               | LLGL2 (NP_004515, 101 a.a. ~ 199 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| <b>Sequence</b>                | SLKVKGGASELQEDESFTLRGPPGAAPSATQITVVLP HSSCELLYLGTESGNVFVVQLPAFRALE<br>DRTISSDAVLQRLPEEARHRRVFEMVEALQEHPR           |
| <b>Host</b>                    | Mouse                                                                                                              |
| <b>Reactivity</b>              | Human                                                                                                              |
| <b>Isotype</b>                 | IgG2a Kappa                                                                                                        |
| <b>Quality Control Testing</b> | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (36.63 KDa) .           |
| <b>Storage Buffer</b>          | In 1x PBS, pH 7.4                                                                                                  |
| <b>Storage Instruction</b>     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                           |

## Applications

- Western Blot (Transfected lysate)

Western Blot analysis of LLGL2 expression in transfected 293T cell line by LLGL2 monoclonal antibody (M06), clone 4G2.

Lane 1: LLGL2 transfected lysate(113 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to LLGL2 on formalin-fixed paraffin-embedded human salivary gland. [antibody concentration 1 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged LLGL2 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — LLGL2

Entrez GeneID [3993](#)

GeneBank Accession# [NM\\_004524](#)

Protein Accession# [NP\\_004515](#)

Gene Name LLGL2

Gene Alias HGL, LGL2

Gene Description lethal giant larvae homolog 2 (Drosophila)

Gene Ontology [Hyperlink](#)

**Gene Summary** The lethal (2) giant larvae protein of Drosophila plays a role in asymmetric cell division, epithelial cell polarity, and cell migration. This human gene encodes a protein similar to lethal (2) giant larva e of Drosophila. In fly, the protein's ability to localize cell fate determinants is regulated by the atypical protein kinase C (aPKC). In human, this protein interacts with aPKC-containing complexes and is cortically localized in mitotic cells. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

**Other Designations** human giant larvae homolog|lethal giant larvae homolog 2

## Publication Reference

- [Co-expression effect of LLGL2 and SLC7A5 to predict prognosis in ER \$\alpha\$ -positive breast cancer.](#)

Tomoka Hisada, Naoto Kondo, Yumi Wanifuchi-Endo, Satoshi Osaga, Takashi Fujita, Tomoko Asano, Yasuaki Uemoto, Sayaka Nishikawa, Yusuke Katagiri, Mitsuo Terada, Akiko Kato, Hiroshi Sugiura, Katsuhiko Okuda, Hiroyuki Kato, Masayuki Komura, Satoshi Morita, Satoru Takahashi, Tatsuya Toyama.

Scientific Reports 2022 Oct; 12(1):16515.

Application: IF, Human, Human breast cancer

- [A conserved polybasic domain mediates plasma membrane targeting of Lgl and its regulation by hypoxia.](#)

Dong W, Zhang X, Liu W, Chen YJ, Huang J, Austin E, Celotto AM, Jiang WZ, Palladino MJ, Jiang Y, Hammond GR, Hong Y. The Journal of Cell Biology 2015 Oct; 211(2):273.

Application: IF, Drosophila, Ovary

- [Distinguishing Barrett gastric foveolar dysplasia from reactive cardiac mucosa in gastroesophageal reflux disease.](#)

Patil DT, Bennett AE, Mahajan D, Bronner MP.

Human Pathology 2013 Jan; 44(6):1146.

Application: IHC, Human, Gastric cardiac mucosa, Barrett gastric foveolar dysplasia

- [Hugl1 and Hugl2 in mammary epithelial cells: polarity, proliferation, and differentiation.](#)

Russ A, Louderbough JM, Zarnescu D, Schroeder JA.

PLoS One 2012 Oct; 7(10):e47734.

Application: IF, IHC-P, WB-Tr, Human, Breast ductal epithelium, Mammary tissues, HMECs, MCF10A, MDA-MB-453 cells

- [Loss of Scribble causes cell competition in mammalian cells.](#)

Norman M, Wisniewska KA, Lawrenson K, Garcia-Miranda P, Tada M, Kajita M, Mano H, Ishikawa S, Ikegawa M, Shimada T, Fujita Y.

Journal of Cell Science 2012 Jan; 125(Pt1):59.

Application: WB-Ce, Dog, MDCK

- [Involvement of Lgl and Mahjong/VprBP in cell competition.](#)

Tamori Y, Bialucha CU, Tian AG, Kajita M, Huang YC, Norman M, Harrison N, Poulton J, Ivanovitch K, Disch L, Liu T, Deng WM, Fujita Y.

PLoS Biology 2010 Jul; 8(7):e1000422.

Application: WB-Tr, Dog, MDCK cells

- [ASPP2 Regulates Epithelial Cell Polarity through the PAR Complex.](#)

Cong W, Hirose T, Harita Y, Yamashita A, Mizuno K, Hirano H, Ohno S.

Current Biology 2010 Aug; 20(15):1408.

Application: WB-Tr, Dog, MDCK cells

## Pathway

- [Tight junction](#)

## Disease

- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Cerebral Hemorrhage](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Intracranial Hemorrhages](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)