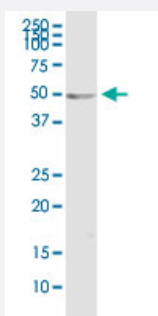


# ODC1 monoclonal antibody (M01), clone 2G5

Catalog # H00004953-M01

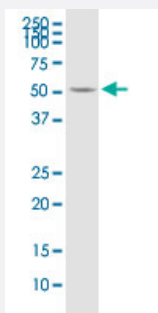
Size 100 ug

## Applications



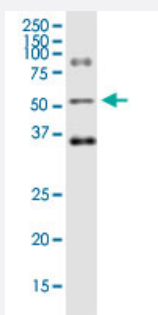
### Western Blot (Tissue lysate)

ODC1 monoclonal antibody (M01), clone 2G5. Western Blot analysis of ODC1 expression in rat brain.



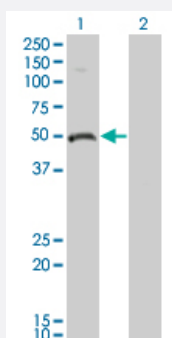
### Western Blot (Tissue lysate)

ODC1 monoclonal antibody (M01), clone 2G5. Western Blot analysis of ODC1 expression in human spleen.



### Western Blot (Cell lysate)

ODC1 monoclonal antibody (M01), clone 2G5. Western Blot analysis of ODC1 expression in A-431.

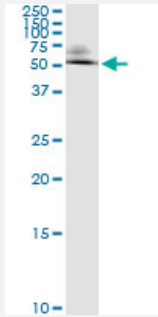


### Western Blot (Transfected lysate)

Western Blot analysis of ODC1 expression in transfected 293T cell line by ODC1 monoclonal antibody (M01), clone 2G5.

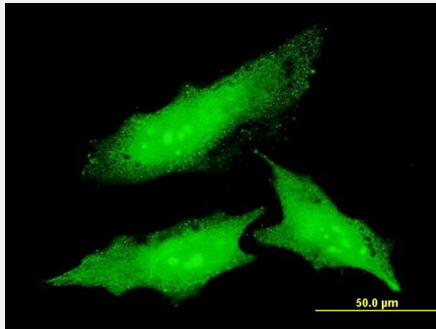
Lane 1: ODC1 transfected lysate(51.148 KDa).

Lane 2: Non-transfected lysate.



## Immunoprecipitation

Immunoprecipitation of ODC1 transfected lysate using anti-ODC1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with ODC1 MaxPab rabbit polyclonal antibody.



## Immunofluorescence

Immunofluorescence of monoclonal antibody to ODC1 on HeLa cell . [antibody concentration 10 ug/ml]

## Specification

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Mouse monoclonal antibody raised against a full length recombinant ODC1.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Immunogen</b>               | ODC1 (AAH25296, 1 a.a. ~ 461 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sequence</b>                | MNCFGNEEFDCHFLDEGFTAKDILDQKINEVSSDDKDAFYVADLGDILKKHLRWLKAIPRVTPF<br>YAVKCNDSKAIKTLAATGAGFDCASKTEIQLVQSLGVPPERIIYANPCKQVSQIKYAANNGVQMM<br>TFDSEVELMKVARAHPKAKLVLRATDDSKAVCRLSVKFGATLRTRSRLLLERAKELNIDVVGVSFH<br>VGSGCTDPETFVQAISDARCVFDMGAEVGFMSYLLDIGGGFPGSEDVKLKFEETGVINPALDKYF<br>PSDSGVRIIAEPGRYYVASAFTLAVNIIAKKMLKEQTGSDDDEDESSEQTFMYVNDGVYGSFNCILY<br>DHAHVKPLLQKRPKPDEKYYSSSIWGPTCDGLDRIVERCDLPEMHVGDWMLFENMGAYTVAAA<br>STFNGFQRPTIYYMSPAWQLMQQFQNPDPFPEVEEQDASTLPVSCAWESGMKRHRAACAS<br>ASINV |
| <b>Host</b>                    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Reactivity</b>              | Human, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Isotype</b>                 | IgG2b Kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Quality Control Testing</b> | Antibody Reactive Against Recombinant Protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <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 (Tissue lysate)

ODC1 monoclonal antibody (M01), clone 2G5. Western Blot analysis of ODC1 expression in rat brain.

[Protocol Download](#)

- Western Blot (Tissue lysate)

ODC1 monoclonal antibody (M01), clone 2G5. Western Blot analysis of ODC1 expression in human spleen.

[Protocol Download](#)

- Western Blot (Cell lysate)

ODC1 monoclonal antibody (M01), clone 2G5. Western Blot analysis of ODC1 expression in A-431.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ODC1 expression in transfected 293T cell line by ODC1 monoclonal antibody (M01), clone 2G5.

Lane 1: ODC1 transfected lysate(51.148 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of ODC1 transfected lysate using anti-ODC1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with ODC1 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to ODC1 on HeLa cell . [antibody concentration 10 ug/ml]

## Gene Info — ODC1

Entrez GeneID [4953](#)

GeneBank Accession# [BC025296](#)

Protein Accession# [AAH25296](#)

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name          | ODC1                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Alias         | ODC                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Description   | ornithine decarboxylase 1                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Omim ID            | <a href="#">114500 165640</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Summary       | This gene encodes the rate-limiting enzyme of the polyamine biosynthesis pathway which catalyze s ornithine to putrescine. The activity level for the enzyme varies in response to growth-promoting stimuli and exhibits a high turnover rate in comparison to other mammalian proteins. Originally localized to both chromosomes 2 and 7, the gene encoding this enzyme has been determined to be located on 2p25, with a pseudogene located on 7q31-qter. [provided by RefSeq] |
| Other Designations | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Publication Reference

- [TWIST1 is a direct transcriptional target of MYCN and MYC in neuroblastoma.](#)

Selmi A, de Saint-Jean M, Jallas AC, Garin E, Hogarty MD, Benard J, Puisieux A, Marabelle A, Valsesia-Wittmann S.  
Cancer Letters 2015 Feb; 357(1):412.

Application: WB, Human, TET21 cells

## Pathway

- [Arginine and proline metabolism](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Glutathione metabolism](#)
- [Metabolic pathways](#)

## Disease

- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)
- [Breast cancer](#)

- [Breast Neoplasms](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Neoplasm Recurrence](#)
- [Precancerous Conditions](#)
- [Recurrence](#)
- [Stomach Neoplasms](#)