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ODC1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ODC1.
Catalog # AT3145a

Product Information

Application	WB, IF, IP
Primary Accession	P11926
Other Accession	BC025296
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2G5
Calculated MW	51148

Additional Information

Gene ID	4953
Other Names	Ornithine decarboxylase, ODC, ODC1
Target/Specificity	ODC1 (AAH25296, 1 a.a. ~ 461 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 IP~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ODC1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

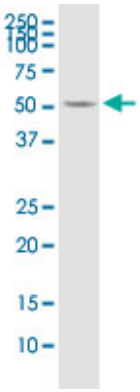
This gene encodes the rate-limiting enzyme of the polyamine biosynthesis pathway which catalyzes ornithine to putrescine. The activity level for the enzyme varies in response to growth-promoting stimuli and exhibits a high turnover rate in comparison to other mammalian proteins. Originally localized 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.

References

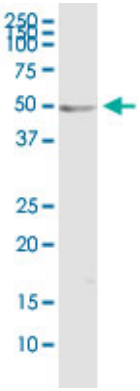
Ornithine Decarboxylase-1 Polymorphism, Chemoprevention With Eflornithine and Sulindac, and Outcomes Among Colorectal Adenoma Patients. Zell JA, et al. J Natl Cancer Inst, 2010 Aug 26. PMID 20798393.Ornithine

Decarboxylase G316A Genotype and Colorectal Cancer Risk. Hughes D, et al. Colorectal Dis, 2010 Apr 29. PMID 20456464.Ornithine decarboxylase mRNA expression in curatively resected non-small-cell lung cancer. Grimminger PP, et al. Clin Lung Cancer, 2010 Mar 1. PMID 20199977.The polyamine metabolism genes ornithine decarboxylase and antizyme 2 predict aggressive behavior in neuroblastomas with and without MYCN amplification. Geerts D, et al. Int J Cancer, 2010 May 1. PMID 19960435.Associations of a polymorphism in the ornithine decarboxylase gene with colorectal cancer survival. Zell JA, et al. Clin Cancer Res, 2009 Oct 1. PMID 19789310.

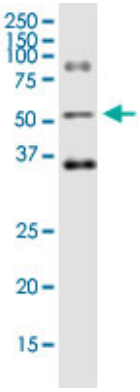
Images



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



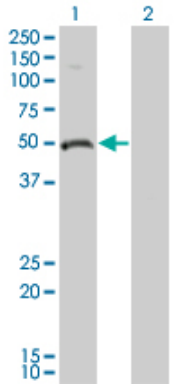
ODC1 monoclonal antibody (M01), clone 2G5. Western Blot analysis of ODC1 expression in rat brain.

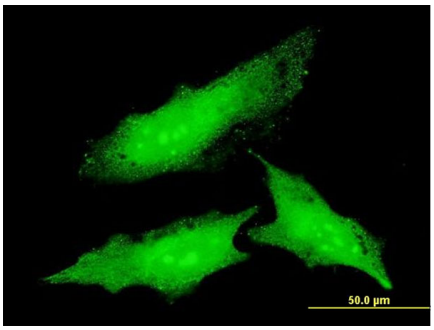


ODC1 monoclonal antibody (M01), clone 2G5. Western Blot analysis of ODC1 expression in A-431.

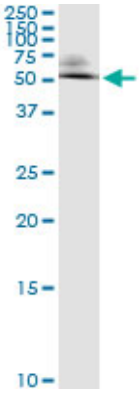
Western Blot analysis of ODC1 expression in transfected 293T cell line by ODC1 monoclonal antibody (M01), clone 2G5.

Lane 1: ODC1 transfected lysate(51.148 KDa).
Lane 2: Non-transfected lysate.





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



Immunoprecipitation of ODC1 transfected lysate using anti-ODC1 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with ODC1 MaxPab rabbit polyclonal antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.