

Mouse Anti-Ornithine Decarboxylase-1 (ODC-1) [ODC1/485]: MC0894, MC0894RTU7

Intended Use: For Research Use Only

Description: Belongs to the Orn/Lys/Arg decarboxylase class-II family. Recognizes a 53kDa protein, identified as the Ornithine Decarboxylase (ODC-1). ODC is the initial and rate-limiting enzyme in the biosynthetic pathway of polyamines and is involved in the conversion of ornithine to putrescine. The biological activity of ODC-1 is rapidly induced in response to virtually all agents known to promote cell proliferation including hormones, drugs, growth factors, mitogens, and tumor promoters. Reportedly, ODC mRNA levels are elevated in lung carcinomas as well as in colon adenomas and carcinomas. ODC activity in colorectal carcinomas is greater than those in adenomas and normal mucosa.

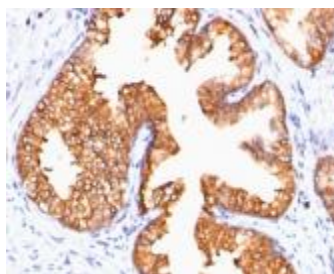
Specifications

Clone: ODC1/485
Source: Mouse
Isotype: IgG1k
Reactivity: Human, rat, cow
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, Flow Cyt, ICC/IF, IP, WB
Package:

| Description | Catalog No. | Size |
|--|-------------|------|
| Ornithine Decarboxylase-1 (ODC-1) Concentrated | MC0894 | 1 ml |
| Ornithine Decarboxylase-1 (ODC-1) Prediluted | MC0894RTU7 | 7 ml |

IHC Procedure*

Positive Control Tissue: Prostate cancer, normal placenta
Concentrated Dilution: 100-300
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual
* Result should be confirmed by an established diagnostic procedure.



FFPE human prostate carcinoma stained with anti-ODC-1 using DAB

References:

1. LC-MS-based metabolomics revealed SLC25A22 as an essential regulator of aspartate-derived amino acids and polyamines inKRAS-mutant colorectal cancer. Li X, et al. Oncotarget 8:101333-101344, 2017.
2. Black raspberries suppress colonic adenoma development in ApcMin/+ mice: relation to metabolite profiles. Pan P, et al. Carcinogenesis 36:1245-53, 2015.
3. Preparation and characterization of monoclonal antibodies against ornithine decarboxylase. Schipper RG; et al. Journal of Immunological Methods, 1993, 161(2):205-15.