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Ornithine Decarboxylase-1 (ODC-1) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone ODC1/487]
Catalog # AH12029

Product Information

Application	WB, IHC, IF, FC
Primary Accession	P11926
Other Accession	4953, 467701
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a, kappa
Clone Names	ODC1/487
Calculated MW	51148

Additional Information

Gene ID	4953
Other Names	Ornithine decarboxylase, ODC, 4.1.1.17, ODC1
Application Note	WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Ornithine Decarboxylase-1 (ODC-1) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ODC1
Function	Catalyzes the first and rate-limiting step of polyamine biosynthesis that converts ornithine into putrescine, which is the precursor for the polyamines, spermidine and spermine. Polyamines are essential for cell proliferation and are implicated in cellular processes, ranging from DNA replication to apoptosis.

Background

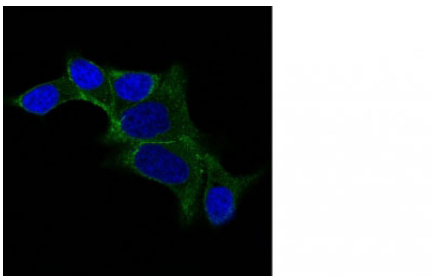
Recognizes a 53kDa protein, identified as the Ornithine Decarboxylase (ODC-1). ODC is the initial and rate-limiting enzyme in the biosynthetic pathway of polyamines and is involved in the conversion of ornithine to putrescine. The biological activity of ODC-1 is rapidly induced in response to virtually 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.

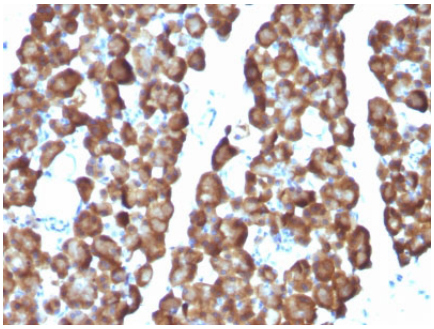
References

Schipper RG; Rutten RG; Sauerbeck M; Schielen WJ; Adams PJ; Kopitz J; Bohley P; Tesser GI; Verhofstad AA. Preparation and characterization of monoclonal antibodies against ornithine decarboxylase. Journal of Immunological Methods, 1993, 161(2):205-15. |

Images



IF staining of LNCap cells using AF488 labeled ODC1 Monoclonal Antibody (ODC1/487) (Green). DAPI was used to stain the cell nuclei (blue).



Formalin-fixed, paraffin-embedded Rat Pancreas stained with ODC1 Monoclonal Antibody (ODC1/487)