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

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

Specification

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

Application	**,1,2,3,4,**
Primary Accession	P11926
Other Accession	4953, 467701
Reactivity	**Human, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG2a, kappa**
Calculated MW	**53kDa KDa**

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

Gene ID 4953

Other Names
Ornithine decarboxylase, ODC, 4.1.1.17, ODC1

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.

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

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

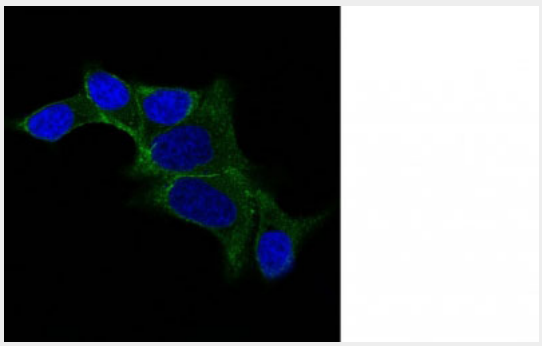
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

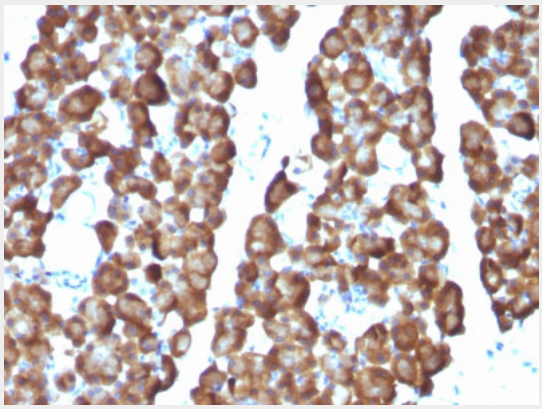
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- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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

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

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