Ornithine Decarboxylase-1 (ODC-1) Antibody

Mouse Monoclonal Antibody [Clone ODC1/485]

Catalog No	Format	Size
4953-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4953-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4953-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

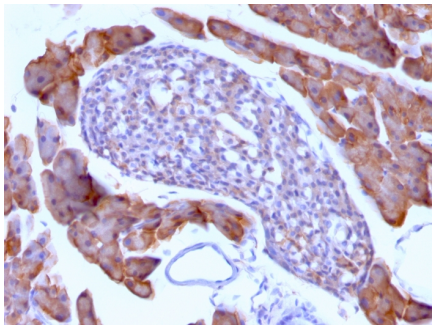
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

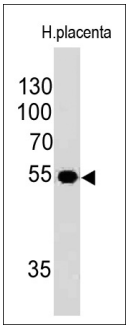
Clone	ODC1/485
Gene Name	ODC1
Immunogen	Recombinant full-length human ODC-1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	53kDa.
Cellular Localization	Cytoplasm, Cytosol
Species Reactivity	Human, Mouse, Rat
Positive Control	Epithelial cells in normal placenta or prostate carcinoma. LNCaP or PC3 cells.

**Optimal dilution for a specific application should be determined.*

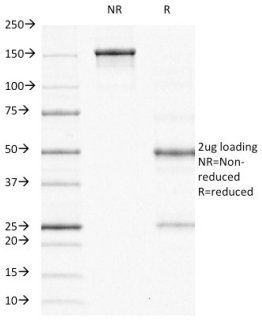
Product Images for Ornithine Decarboxylase-1 (ODC-1) Antibody



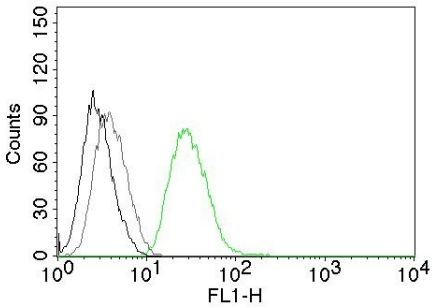
Formalin-fixed, paraffin-embedded mouse pancreas stained with ODC-1 Mouse Monoclonal Antibody (ODC1/485).



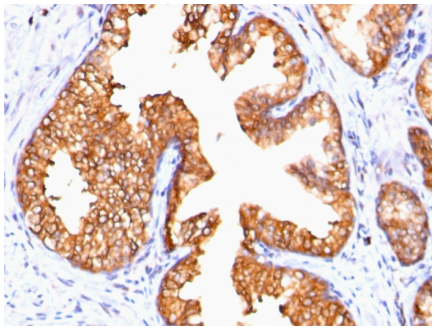
Western blot analysis of human placental tissue lysate using ODC-1 Mouse Monoclonal Antibody (ODC1/485).



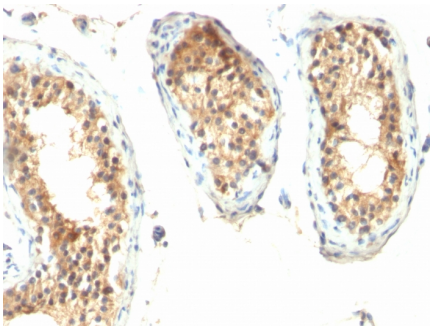
SDS-PAGE Analysis of Purified ODC-1 Mouse Monoclonal Antibody (ODC1/485). Confirmation of Purity and Integrity of Antibody.



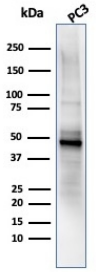
Flow cytometric analysis of human ODC-1 in PC3 cells. Black: cells alone;Grey: Isotype Control; Green: AF488-labeled ODC-1 Mouse Monoclonal Antibody (ODC1/485).



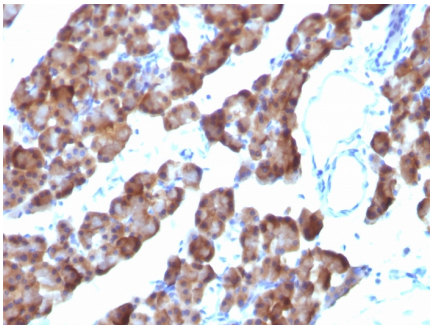
Formalin-fixed, paraffin-embedded human prostate carcinoma stained withODC-1 Mouse Monoclonal Antibody (ODC1/485).



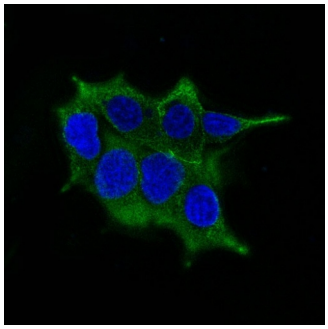
Formalin-fixed, paraffin-embedded human testicular carcinoma stained with ODC-1 Mouse Monoclonal Antibody (ODC1/485).



Western blot analysis of PC3 cell lysate using ODC-1 Mouse Monoclonal Antibody (ODC1/485).



Formalin-fixed, paraffin-embedded rat pancreas stained with ODC1 Mouse Monoclonal Antibody (ODC1/485).



Confocal immunofluorescence image of LNCaP cells using AF488-labeled ODC-1 Mouse Monoclonal Antibody (ODC1/485) (green). Nuclei are counterstained with DAPI (blue).

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Specificity & Comments

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.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.