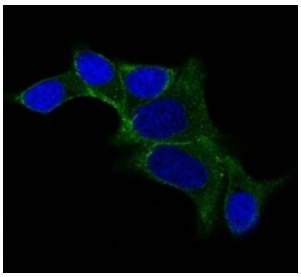
Ornithine Decarboxylase Antibody [clone ODC1/487] (V2770)

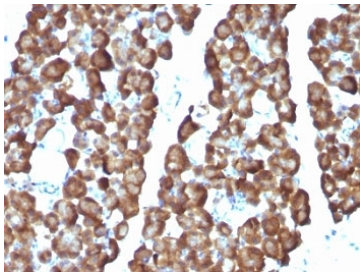
Catalog No.	Formulation	Size
V2770-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2770-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2770SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2770IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

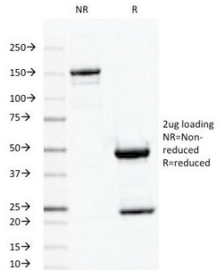
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	ODC1/487
Purity	Protein G affinity chromatography
UniProt	P11926
Localization	Cytoplasmic
Applications	Flow Cytometry : 0.5-1ug/10^6 cells Immunofluorescence : 0.5-1ug/ml Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This Ornithine Decarboxylase antibody is available for research use only.



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



IHC: Formalin-fixed, paraffin-embedded rat pancreas stained with Ornithine Decarboxylase antibody (ODC1/487)



SDS-PAGE Analysis of Purified, BSA-Free Ornithine Decarboxylase Antibody (clone ODC1/487). Confirmation of Integrity and Purity of the Antibody.

Description

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.

Application Notes

Optimal dilution of the Ornithine Decarboxylase antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human protein was used as the immunogen for the Ornithine Decarboxylase antibody.

Storage

Store the Ornithine Decarboxylase antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).