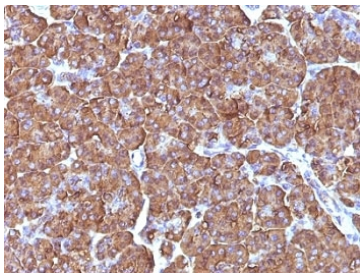
ODC Antibody / Ornithine Decarboxylase [clone ODC1/486] (V2769)

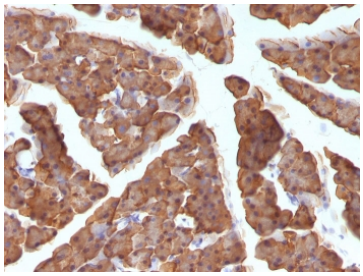
Catalog No.	Formulation	Size
V2769-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2769-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2769SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2769IHC-7ML	Prediluted 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

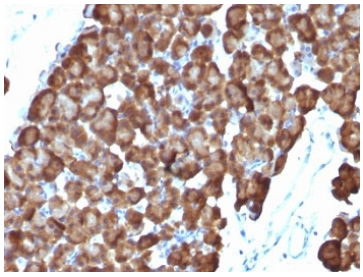
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	ODC1/486
Purity	Protein G affinity chromatography
UniProt	P11926
Localization	Cytoplasmic
Applications	Flow cytometry: 0.5-1ug/million cells Immunofluorescence: 0.5-1ug/ml Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.25-0.5ug/ml for 30 min at RT
Limitations	This ODC antibody is available for research use only.



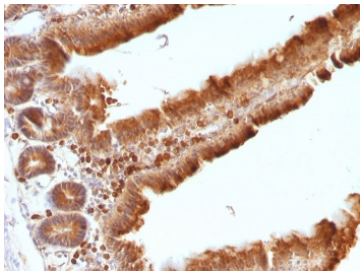
IHC: Formalin-fixed, paraffin-embedded human pancreas stained with ODC antibody (clone ODC1/486).



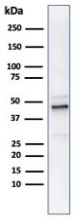
IHC: Formalin-fixed, paraffin-embedded mouse pancreas stained with ODC antibody (clone ODC1/486).



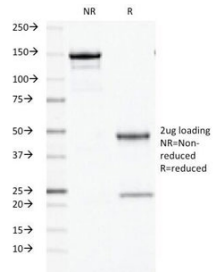
IHC: Formalin-fixed, paraffin-embedded rat pancreas stained with ODC antibody (clone ODC1/486).



IHC: Formalin-fixed, paraffin-embedded mouse small intestine stained with ODC antibody (clone ODC1/486).



Western blot testing of human PC-3 cell lysate with ODC antibody. Predicted molecular weight ~51 kDa.



SDS-PAGE analysis of purified, BSA-free ODC antibody (clone ODC1/486) as confirmation of integrity and purity.

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 ODC antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min
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 ODC antibody.

Storage

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

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