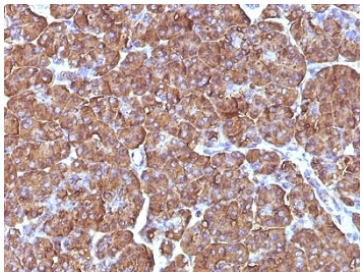
# ODC Antibody / Ornithine Decarboxylase [clone ODC1/486] (V2769)

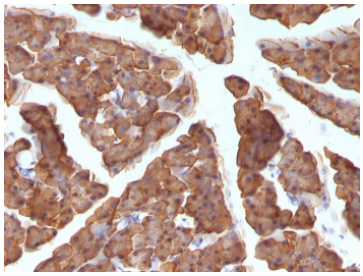
| Catalog No. | Formulation | Size |
|---|---|---|
| V2769-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V2769-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V2769SAF-100UG | 1 mg/ml in 1X PBS; BSA free,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

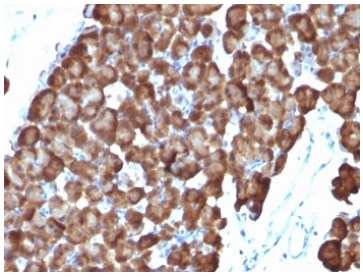
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Purified |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2a, kappa |
| **Clone Name** | ODC1/486 |
| **Purity** | Protein G affinity chromatography |
| **UniProt**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



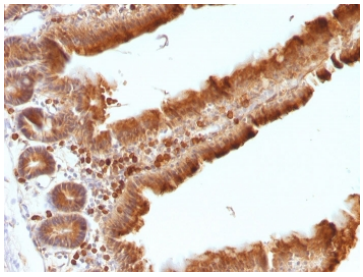
IHC: Formalin-fixed, paraffin-embedded human pancreas stained with ODC antibody (clone ODC1/486).



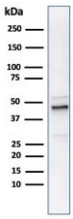
IHC: Formalin-fixed, paraffin-embedded mouse pancreas stained with ODC antibody (clone ODC1/486).



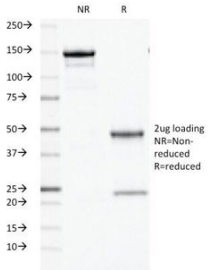
IHC: Formalin-fixed, paraffin-embedded rat pancreas stained with ODC antibody (clone ODC1/486).



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).

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com