

## ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [ODC1/485] recognizes Ornithine Decarboxylase
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	ODC1/485
Isotype	IgG1, kappa
Target Name	Ornithine Decarboxylase
Species	Human
Immunogen	Recombinant human Ornithine Decarboxylase.
Conjugation	Un-conjugated
Alternate Names	Ornithine decarboxylase; ODC; EC 4.1.1.17

### Application Instructions

Application table	Application	Dilution
	FACS	1 - 2 µg/10 <sup>6</sup> cells
	ICC/IF	2 - 5 µg/ml
	IHC-P	2 - 5 µg/ml
	WB	1 - 2 µg/ml
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min, followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	PC3	
Observed Size	~ 48 kDa	

### Properties

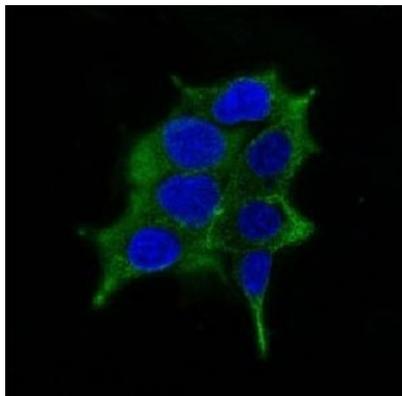
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA.
Preservative	0.05% Sodium azide

Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

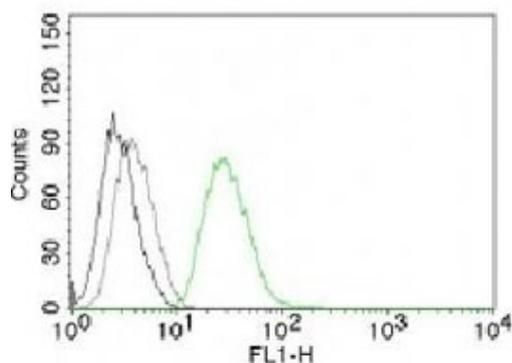
Gene Symbol	ODC1
Gene Full Name	ornithine decarboxylase 1
Background	This gene encodes the rate-limiting enzyme of the polyamine biosynthesis pathway which catalyzes ornithine to putrescine. The activity level for the enzyme varies in response to growth-promoting stimuli and exhibits a high turnover rate in comparison to other mammalian proteins. Originally localized to both chromosomes 2 and 7, the gene encoding this enzyme has been determined to be located on 2p25, with a pseudogene located on 7q31-qter. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Dec 2013]
Function	Key enzyme of polyamine biosynthesis that converts ornithine into putrescine, which is the precursor for the polyamines, spermidine and spermine. [UniProt]
Calculated Mw	51 kDa
PTM	S-Nitrosylation inhibits the enzyme. S-Nitrosylated in vitro on 4 cysteine residues.
Cellular Localization	Cytoplasmic

## Images



ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] ICC/IF image

Immunofluorescence: LNCaP cells stained with Alexa Fluor 488-conjugated ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485].



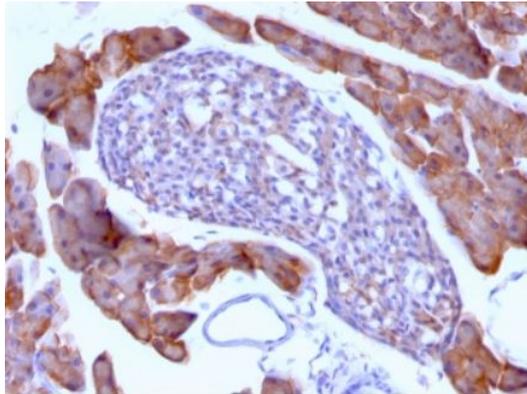
ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] FACS image

Flow Cytometry: permeabilized PC3 cells stained with ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485].



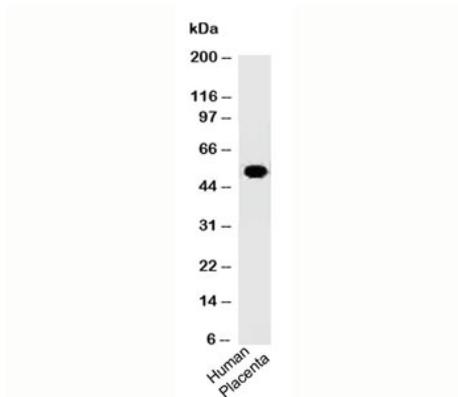
ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human prostate carcinoma stained with ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485].



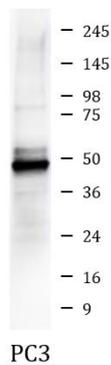
ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Mouse pancreas tissue stained with ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485].



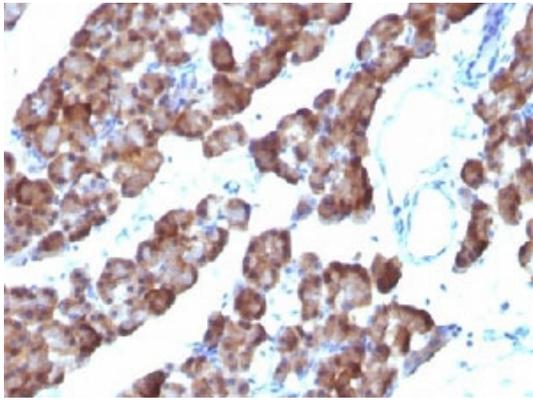
ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] WB image

Western blot: Human Placenta stained with ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485].



ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] WB image

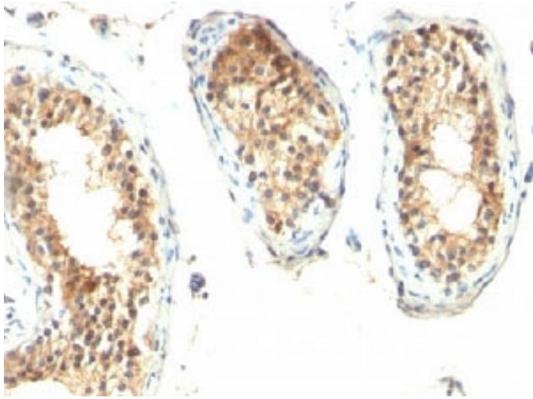
Western blot: PC3 cell lysate stained with ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485].



ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Rat pancreas stained with ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485].

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ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human testicular carcinoma stained with ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485].

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