

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 ⁶ 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

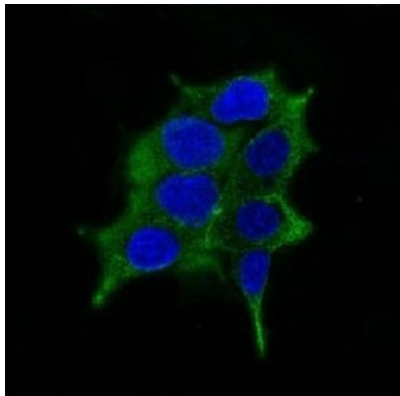
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA.
Preservative	0.05% Sodium azide

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

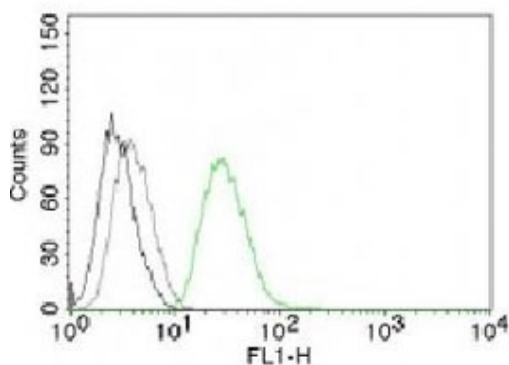
Gene Symbol	ODC1
Gene Full Name	ornithine decarboxylase 1
Background	This gene encodes the rate-limiting enzyme of the polyamine biosynthesis pathway which catalyzes ornithine to putrescine. The activity level for the enzyme varies in response to growth-promoting stimuli and exhibits a high turnover 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].



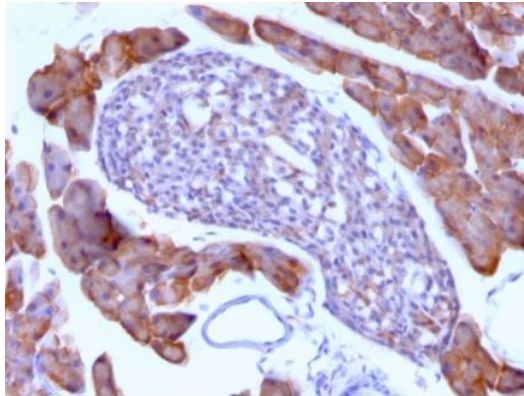
ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] FACS image

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



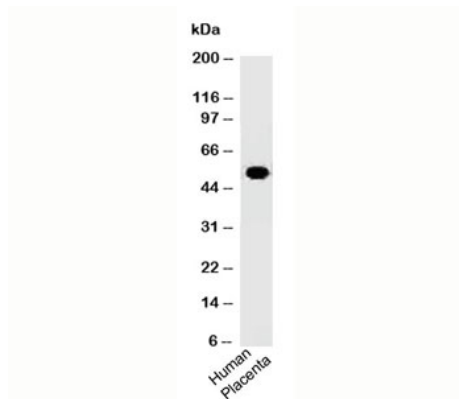
ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] IHC-P image

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



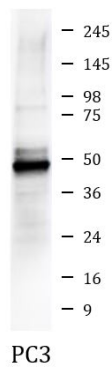
ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] IHC-P image

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



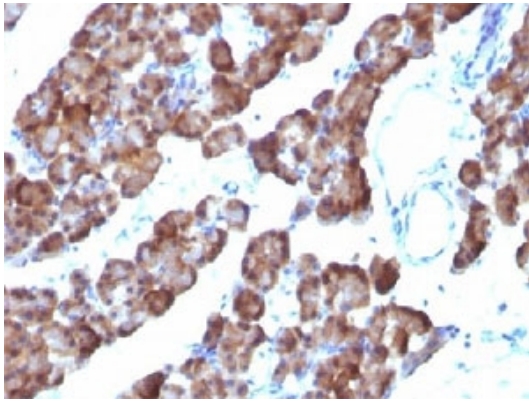
ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] WB image

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



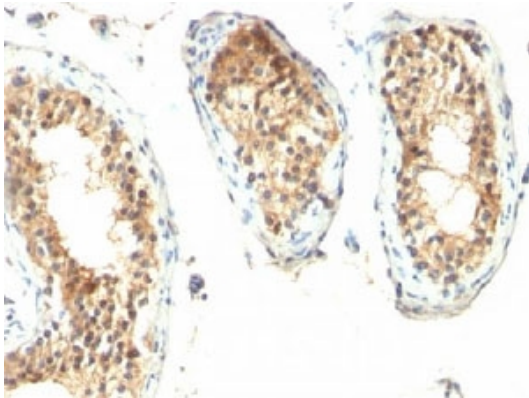
ARG56173 anti-Ornithine Decarboxylase antibody [ODC1/485] WB image

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].



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].