

Rabbit ODC1 Polyclonal Antibody | anti-ODC1 antibody

ODC1 Antibody

CATALOG # AAA326476	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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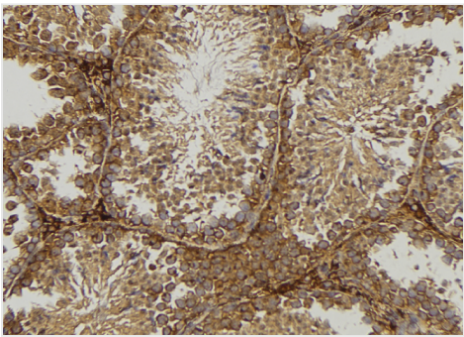
PRODUCT SYNONYMS

ODC1; Polyclonal Antibody; ODC1 Antibody; DCOR_HUMAN; Ddc1; Odc 1; ODC; Odc1; ODC2; Ornithine decarboxylase 1; Ornithine decarboxylase 2; Ornithine decarboxylase; Ornithine decarboxylase structural 1; RNODC; anti-ODC1 antibody

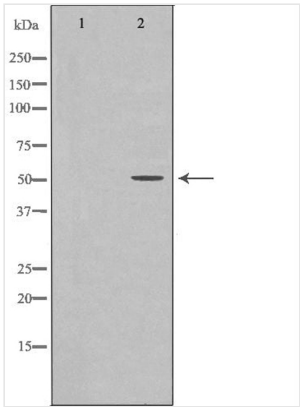
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ODC1 antibody detects endogenous levels of total ODC1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	461
Applicable Applications for anti-ODC1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ODC1
Tissue Specificity	Down-regulated in response to enterovirus 71 (EV71) infection (at protein level).
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (83%), Zebrafish (83%), Bovine (92%), Horse (100%), Sheep (100%), Rabbit (92%), Dog (100%), Chicken (100%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326476 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using ODC1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ODC1 antibody

Description: Ornithine decarboxylase (ODC) is also named as ODC1and belongs to the Orn/Lys/Arg decarboxylase class-II family. It catalyzes the conversion of ornithine to putrescine, the first step and a major site of regulation of polyamine biosynthesis. The level of ODC is known to be controlled at several sites, namely transcription, translation, and enzyme degradation. Polyamines can stimulate the degradation of ODC as a type of negative feedback control(PMID:8486633). This protein can be phosphorylated in vivo(PMID:8798774). This antibody is specific to ODC1.

Function: Catalyzes the first and rate-limiting step of polyamine biosynthesis that converts ornithine into putrescine, which is the precursor for the polyamines, spermidine and spermine. Polyamines are essential for cell proliferation and are implicated in cellular processes, ranging from DNA replication to apoptosis.

Subunit Structure: Homodimer. Only the dimer is catalytically active, as the active sites are constructed of residues from both monomers (Probable). Does not form a heterodimer with AZIN2 (By similarity).

Post-translational Modifications: S-Nitrosylation inhibits the enzyme. S-Nitrosylated in vitro on 4 cysteine residues.

Similarity: Belongs to the Orn/Lys/Arg decarboxylase class-II family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	563580287
NCBI GeneID	4953
NCBI Accession #	NP_001274118.1
NCBI GenBank Nucleotide #	NM_001287189.1
UniProt Accession #	P11926; Q53TU3; Q6LDS9
Molecular Weight	Observed: 51 kDa Predicted: 52 kDa
NCBI Official Full Name	ornithine decarboxylase isoform 1
NCBI Official Synonym Full Names	ornithine decarboxylase 1
NCBI Official Symbol	ODC1
NCBI Official Synonym Symbols	ODC
NCBI Protein Information	ornithine decarboxylase
UniProt Protein Name	Ornithine decarboxylase
UniProt Gene Name	ODC1
UniProt Synonym Gene Names	ODC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/odc1-antibody-immunohistochemistry-western-blot-elisa/326476>