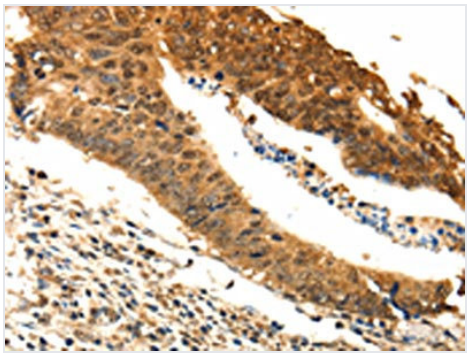
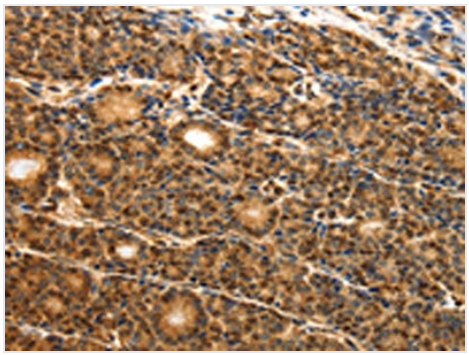
ODC1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ODC1, Polyclonal Antibody
Full Product Name	ODC1 Antibody
Product Gene Name	anti-ODC1 antibody
Product Synonym Names	ornithine decarboxylase 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	51,148 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (10580508..10588453, complement). Location: 2p25
OMIM	165640
3D Structure	ModBase 3D Structure for P11926
Immunogen	Fusion protein of human ODC1
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-ODC1 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ODC1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-ODC1 antibody	ELISA: 1:1000-1:5000 IHC: 1:25-1:100
Related Product Information for anti-ODC1 antibody	MBS7124077 is an antibody targeting ODC1. Also known as ODC1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-ODC1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC)-Paraffin of anti-ODC1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using MBS7124077(ODC1 Antibody) at dilution 1/25, on the right is treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-ODC1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using MBS7124077(ODC1 Antibody) at dilution 1/25, on the right is treated with fusion protein. (Original magnification: ×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ODC1. It may not necessarily be applicable to this product.

NCBI GI #	4505489
NCBI GeneID	4953
NCBI Accession #	NP_002530.1
UniProt Primary Accession #	P11926
UniProt Secondary Accession #	Q53TU3; Q6LDS9
UniProt Related Accession #	P11926
GenBank Nucleotide #	NM_002539.1
NCBI Official Full Name	ornithine decarboxylase
NCBI Official Synonym Full Names	ornithine decarboxylase 1
NCBI Official Symbol	ODC1
NCBI Official Synonym Symbols	ODC
UniProt Protein Name	Ornithine decarboxylase
Protein Family	Mitochondrial 2-oxodicarboxylate carrier
UniProt Gene Name	ODC1
UniProt Synonym Gene Names	ODC
UniProt Entry Name	DCOR_HUMAN
NCBI Protein Information	ornithine decarboxylase
NCBI Summary for ODC1	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. [provided by RefSeq, Jul 2008]

UniProt Comments for ODC1	ODC: 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. [provided by RefSeq, Jul 2008] Protein type: EC 4.1.1.17; Amino Acid Metabolism - arginine and proline; Other Amino Acids Metabolism - glutathione; Cell cycle regulation; Lyase Chromosomal Location of Human Ortholog: 2p25 Cellular Component: cytoplasm; cytosol Molecular Function: protein homodimerization activity; ornithine decarboxylase activity Biological Process: response to virus; positive regulation of cell proliferation; regulation of protein catabolic process; kidney development; regulation of amino acid metabolic process; putrescine biosynthetic process from ornithine; polyamine metabolic process Disease: Colorectal Cancer
Research Articles on ODC1	**1.** Overexpression of antizyme (AZ), an ornithine decarboxylase (ODC) inhibitory protein, suppressed ERalpha expression, suggesting that ODC plays an important role in regulation of ERalpha expression.
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