ODC1 Antibody

PRODUCT OVERVIEW

Product Name	ODC1, Antibody
Full Product Name	ODC1 Antibody
Product Gene Name	anti-ODC1 antibody
Molecular Weight	51,148 Da
OMIM	165640
3D Structure	ModBase 3D Structure for P11926
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-ODC1 antibody	MBS8502391 is an antibody targeting ODC1. Also known as ODC1 Antibody.
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.

ADDITIONAL DETAILS

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

NCBI GI #	563580287
NCBI GeneID	4953
NCBI Accession #	NP_001274118.1
UniProt Primary Accession #	P11926
UniProt Secondary Accession #	Q53TU3; Q6LDS9
UniProt Related Accession #	P11926
GenBank Nucleotide #	NM_001287189.1
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
UniProt Protein Name	Ornithine decarboxylase
Protein Family	Mitochondrial 2-oxodicarboxylate carrier
UniProt Gene Name	ODC1
UniProt Synonym Gene Names	ODC
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. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Dec 2013]
UniProt Comments for ODC1	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.
Research Articles on ODC1	**1.** Extracellular polyamines induced proliferation and cancer cell migration by inducing ODC and SSAT expression, and the Akt1-mediated pathway.
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