# ODC1 Antibody (C-Term) Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | ODC1, Blocking Peptide |
| **Full Product Name** | ODC1 Antibody (C-term) Blocking peptide |
| **Product Gene Name** | ODC1 blocking peptide |
| **Product Synonym Names** | Ornithine decarboxylase; ODC; ODC1 |
| **Form/Format** | Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml. |
| **Specificity** | The synthetic peptide sequence used to generate the antibody was selected from the C-term region of ODC1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C. |
| **Antibody/Peptide Pairs** | ODC1 peptide (MBS9220389) is used for blocking the activity of ODC1 antibody (MBS9210883) |
| **Molecular Weight** | 51,148 Da |
| **OMIM** | 165640 |
| **Related Product Information for ODC1 blocking peptide** | Key enzyme of polyamine biosynthesis that converts ornithine into putrescine, which is the precursor for the polyamines, spermidine and spermine. |
| **Other Notes** | Small volumes of ODC1 blocking peptide 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. |
| **Searchable Terms for ODC1 purchase** | MBS9220389 is a blocking peptide targeting ODC1. Also known as ODC1 Antibody (C-term) Blocking peptide. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 118377 |
| **NCBI GeneID** | 4953 |
| **NCBI Accession #** | P11926.2 |
| **UniProt Primary Accession #** | P11926 |
| **UniProt Secondary Accession #** | Q53TU3; Q6LDS9 |
| **UniProt Related Accession #** | P11926 |
| **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 |

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|---|---|
| **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. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Dec 2013] |
| **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]<br><br>Protein type: Other Amino Acids Metabolism - glutathione; EC 4.1.1.17; Cell cycle regulation; Lyase; Amino Acid Metabolism - arginine and proline<br><br>Chromosomal Location of Human Ortholog: 2p25<br><br>Cellular Component: cytoplasm; cytosol<br><br>Molecular Function: ornithine decarboxylase activity; protein binding; protein homodimerization activity<br><br>Biological Process: polyamine metabolic process; putrescine biosynthetic process from ornithine; regulation of amino acid metabolic process; regulation of protein catabolic process; response to virus<br><br>Disease: Colorectal Cancer |
| **Research Articles on ODC1** | **1.** We earlier presented evidence for a physical interaction between ODC and SPR and we showed that RNAi-mediated knockdown of SPR expression significantly reduced native ODC enzyme activity and impeded Neuroblastoma cell proliferation. |
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