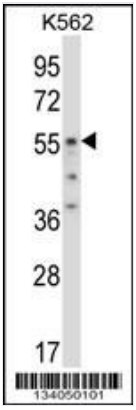
ODC1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ODC1, Polyclonal Antibody
Full Product Name	ODC1, CT (ODC1, Ornithine decarboxylase) (AP)
Product Gene Name	anti-ODC1 antibody
Product Synonym Names	ODC1; Ornithine decarboxylase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
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	ODC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 322-352 amino acids from the C-terminal region of human ODC1.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-ODC1 antibody	Antibodies; Enzymes; Decarboxylase
Applications Tested/Suitable for anti-ODC1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ODC1 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ODC1 antibody	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.
Product References and Citations for anti-ODC1 antibody	Chaturvedi, R., et al. Gastroenterology 139(5):1686-1698(2010). Zell, J.A., et al. J. Natl. Cancer Inst. 102(19):1513-1516(2010). Geerts, D., et al. Int. J. Cancer 126(9):2012-2024(2010). Hughes, D., et al. Colorectal Dis (2010). In press: Grimminger, P.P., et al. Clin Lung Cancer 11(2):114-119(2010).
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.

Searchable Terms for ODC1 purchase	MBS6327601 is an antibody targeting ODC1. Also known as ODC1, CT (ODC1, Ornithine decarboxylase) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ODC1 antibody
ODC1 Antibody (C-term) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the ODC1 antibody detected the ODC1 protein (arrow).

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

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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