

ODC1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP14027b

Specification

ODC1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [P11926](#)

ODC1 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 4953

Other Names

Ornithine decarboxylase, ODC, ODC1

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP14027b 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.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ODC1 Antibody (C-term) Blocking peptide - Protein Information

Name 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.

ODC1 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ODC1 Antibody (C-term) Blocking peptide - Images

ODC1 Antibody (C-term) Blocking peptide - Background

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.

ODC1 Antibody (C-term) Blocking peptide - References

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)