

**OAZ2 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10765b****Specification**

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**OAZ2 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [O95190](#)**OAZ2 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 4947**Other Names**

Ornithine decarboxylase antizyme 2, AZ2, ODC-Az 2, OAZ2

**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.

**OAZ2 Antibody (C-term) Blocking peptide - Protein Information****Name** OAZ2**Function**

Ornithine decarboxylase (ODC) antizyme protein that negatively regulates ODC activity and intracellular polyamine biosynthesis and uptake in response to increased intracellular polyamine levels. Binds to ODC monomers, inhibiting the assembly of the functional ODC homodimers. Does not target the ODC monomers for degradation, which allows a protein synthesis-independent restoration of ODC activity (PubMed:<a href="http://www.uniprot.org/citations/17900240" target="\_blank">17900240</a>). Involved in the translocation of AZIN2 from ER-Golgi intermediate compartment (ERGIC) to the cytosol (By similarity).

**Cellular Location**

Nucleus.

**OAZ2 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**OAZ2 Antibody (C-term) Blocking peptide - Images****OAZ2 Antibody (C-term) Blocking peptide - Background**

Ornithine decarboxylase catalyzes the conversion of ornithine to putrescine in the first and apparently rate-limiting step in polyamine biosynthesis. The ornithine decarboxylase antizymes play a role in the regulation of polyamine synthesis by binding to and inhibiting ornithine decarboxylase. Antizyme expression is auto-regulated by polyamine-enhanced translational frameshifting. The antizyme encoded by this gene inhibits ornithine decarboxylase but does not accelerate its degradation. [provided by RefSeq].

**OAZ2 Antibody (C-term) Blocking peptide - References**

Geerts, D., et al. Int. J. Cancer 126(9):2012-2024(2010) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) : Mangold, U., et al. Biochem. J. 385 (PT 1), 21-28 (2005) : Chen, H., et al. J. Biol. Chem. 277(48):45957-45961(2002) Coffino, P. Proc. Natl. Acad. Sci. U.S.A. 97(9):4421-4423(2000)