

OAZ2 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10765b

Specification

OAZ2 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O95190
Other Accession	O08608 , NP_002528.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	21011
Antigen Region	125-151

OAZ2 Antibody (C-term) - Additional Information

Gene ID 4947

Other Names

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

Target/Specificity

This OAZ2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 125-151 amino acids from the C-terminal region of human OAZ2.

Dilution

WB~~1:1000

IHC-P~~1:50~100

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

OAZ2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

OAZ2 Antibody (C-term) - 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:[17900240](#)). Involved in the translocation of AZIN2 from ER-Golgi intermediate compartment (ERGIC) to the cytosol (By similarity).

Cellular Location

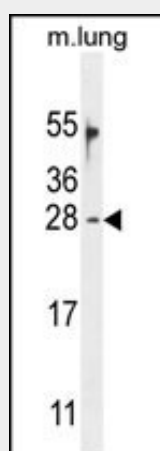
Nucleus.

OAZ2 Antibody (C-term) - Protocols

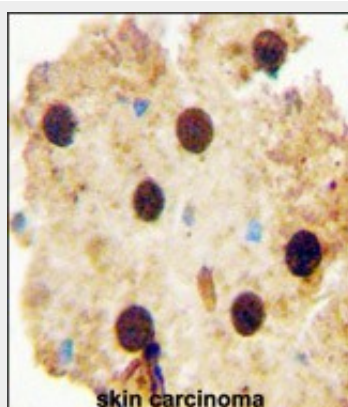
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

OAZ2 Antibody (C-term) - Images



OAZ2 Antibody (C-term) (Cat. #AP10765b) western blot analysis in mouse lung tissue lysates (35ug/lane). This demonstrates the OAZ2 antibody detected the OAZ2 protein (arrow).



OAZ2 antibody (C-term) (Cat. #AP10765b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skin carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the OAZ2 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

OAZ2 Antibody (C-term) - 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) - 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)