



# OAZ3 Polyclonal Antibody

<b>Catalog No</b>	BYab-05891
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	OAZ3
<b>Protein Name</b>	Ornithine decarboxylase antizyme 3 (AZ3) (ODC-Az 3)
<b>Immunogen</b>	Synthesized peptide derived from human protein . at AA range: 90-170
<b>Specificity</b>	OAZ3 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	20kD
<b>Cell Pathway</b>	Nucleus. Cytoplasm .
<b>Tissue Specificity</b>	Testis specific.
<b>Function</b>	alternative products:A ribosomal frameshift occurs between the codons for Ser-28 and Glu-29. An autoregulatory mechanism enables modulation of frameshifting according to the cellular concentration of polyamines,developmental stage:Expression starts early in spermiogenesis and finishes in the late spermatid phase.,function:Binds to, and destabilizes, ornithine decarboxylase. Does not accelerate ornithine decarboxylase degeneration. OAZ3 probably plays a key role in spermatogenesis by regulating the intracellular concentration of polyamines in haploid germ cells.,miscellaneous:A ribosomal frameshift occurs between the codons for Ser-28 and Glu-29. An autoregulatory mechanism enables modulation of frameshifting according to the cellular concentration of polyamines.,similarity:Belongs to the ODC antizyme family.,subunit:Interacts with GGN.,tissue specificity:Testis specific.,

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### Background

The protein encoded by this gene belongs to the ornithine decarboxylase antizyme family, which plays a role in cell growth and proliferation by regulating intracellular polyamine levels. Expression of antizymes requires +1 ribosomal frameshifting, which is enhanced by high levels of polyamines. Antizymes in turn bind to and inhibit ornithine decarboxylase (ODC), the key enzyme in polyamine biosynthesis; thus, completing the auto-regulatory circuit. This gene encodes antizyme 3, the third member of the antizyme family. Like antizymes 1 and 2, antizyme 3 inhibits ODC activity and polyamine uptake; however, it does not stimulate ODC degradation. Also, while antizymes 1 and 2 have broad tissue distribution, expression of antizyme 3 is restricted to haploid germ cells in testis, suggesting a distinct role for this antizyme in spermiogenesis. Antizyme 3 gene knockout studies showed that ho

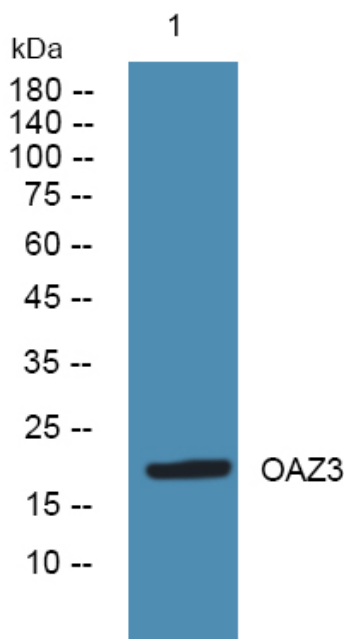
### matters needing attention

Avoid repeated freezing and thawing!

### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western blot analysis of lysates from A431 cells, primary antibody was diluted at 1:1000, 4° over night