



OAZ3 Monoclonal Antibody

Catalog No	BYmab-05891
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	OAZ3
Protein Name	Ornithine decarboxylase antizyme 3 (AZ3) (ODC-Az 3)
Immunogen	Synthesized peptide derived from human protein . at AA range: 90-170
Specificity	OAZ3 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	20kD
Cell Pathway	Nucleus. Cytoplasm .
Tissue Specificity	Testis specific.
Function	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

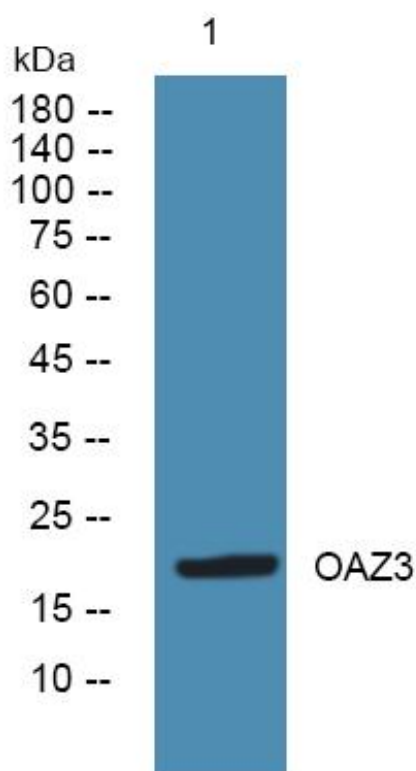
matters needing attention

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 various cells using OAZ3 Monoclonal Antibody