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**Product Name: OAZ2 Rabbit Polyclonal Antibody****Catalog #: APRab15084**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	20kDa

**Antigen Information**

<b>Gene Name</b>	OAZ2
<b>Alternative Names</b>	
<b>Gene ID</b>	4947.0
<b>SwissProt ID</b>	O95190
<b>Immunogen</b>	Synthesized peptide derived from human protein . at AA range: 90-170

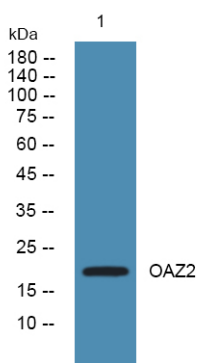
**Background**

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 polyamines. 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 2, the second member of the antizyme family. Like antizyme 1, antizyme 2 has broad tissue distribution, inhibits ODC activity and polyamine uptake, and stimulates ODC degradation in vivo; however, it fails to promote ODC degradation in vitro. Antizyme 2 is expressed at lower levels than antizyme 1, but is evolutionary more conserved, suggesting it likely has an important biological role. Studies also show different subalternative products: A ribosomal frameshift occurs between the codons for Ser-32 and Asp-33. An autoregulatory mechanism enables modulation of frameshifting according to the cellular concentration of polyamines, function: Binds to, and destabilizes, ornithine decarboxylase. Does not accelerate ornithine decarboxylase degeneration, similarity: Belongs to the ODC antizyme family,.

## Research Area

## Image Data



Western blot analysis of lysates from SW480 cells, OAZ2 Rabbit Polyclonal Antibody was diluted at 1:1000, 4° over night