

AZ1 rabbit pAb

Cat No.:ES6440

For research use only

Overview

Product Name	AZ1 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000, WB 1:500-2000
Immunogen	The antiserum was produced against synthesized peptide derived from human OAZ1. AA range:14-63
Specificity	AZ1 Polyclonal Antibody detects endogenous levels of AZ1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Ornithine decarboxylase antizyme 1
Gene Name	OAZ1
Cellular localization	nucleus,cytoplasm,cytosol,
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	
Human Gene ID	4946
Human Swiss-Prot Number	P54368
Alternative Names	OAZ1; OAZ; Ornithine decarboxylase antizyme 1; ODC-Az
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 1, the first member of the antizyme family, that has broad tissue distribution, and negatively regulates intracellular polyamine levels by binding to and targeting ODC for degradation, as well as inhibiting polyamine uptake. Antizyme 1 mRNA contains two potential in-frame AUGs; and studies in rat suggest that alternative use of the two translation initiation sites results in N-terminally distinct protein isoforms

Immunohistochemistry analysis of paraffin-embedded human brain tissue, using OAZ1 Antibody. The picture on the right is blocked with the synthesized peptide.

