

Rabbit AZIN2 Polyclonal Antibody | anti-AZIN2 antibody

AZIN2 Antibody - middle region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA200251	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Pig, Rabbit, Rat	Western Blot

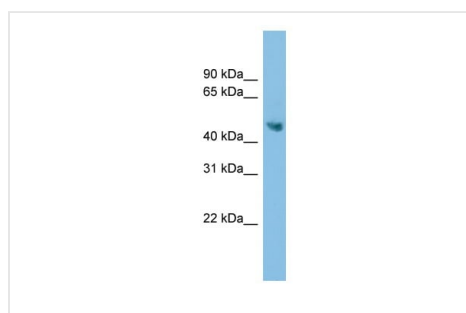
PRODUCT SYNONYMS

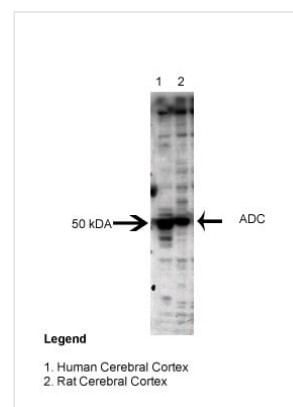
AZIN2; Polyclonal Antibody; AZIN2 Antibody - middle region; anti-AZIN2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Pig, Rabbit, Rat
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: RH LLENAKKHHV EVVGVSFHIG SGCPDPQAYA QSIADARLVF EMGTELGH
Sequence Length	460
Applicable Applications for anti-AZIN2 antibody	WB (Western Blot)
Homology	Cow: 100%; Dog: 79%; Guinea Pig: 86%; Horse: 100%; Human: 100%; Mouse: 100%; Pig: 100%; Rabbit: 93%; Rat: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human ADC
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES


WB (Western Blot)

WB Suggested Anti-ADC Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:12500
Positive Control: COLO205 cell lysate

WB (Western Blot)

Sample Type: Human and Rat Cerebral Cortex
Primary Dilution: 1:3000

ADDITIONAL INFORMATION

Related Product Information for anti-AZIN2 antibody	This is a rabbit polyclonal antibody against ADC. It was validated on Western Blot using a cell lysate as a positive control. Target Description: The protein encoded by this gene belongs to the antizyme inhibitor family, which plays a role in cell growth and proliferation by maintaining polyamine homeostasis within the cell. Antizyme inhibitors are homologs of ornithine decarboxylase (ODC, the key enzyme in polyamine biosynthesis) that have lost the ability to decarboxylase ornithine; however, retain the ability to bind to antizymes. Antizymes negatively regulate intracellular polyamine levels by binding to ODC and targeting it for degradation, as well as by inhibiting polyamine uptake. Antizyme inhibitors function as positive regulators of polyamine levels by sequestering antizymes and neutralizing their effect. This gene encodes antizyme inhibitor 2, the second member of this gene family. Like antizyme inhibitor 1, antizyme inhibitor 2 interacts with all 3 antizymes and stimulates ODC activity and polyamine uptake. However, unlike antizyme inhibitor 1, which is ubiquitously expressed and localized in the nucleus and cytoplasm, antizyme inhibitor 2 is predominantly expressed in the brain and testis and localized in the endoplasmic reticulum-golgi intermediate compartment. Recent studies indicate that antizyme inhibitor 2 is also expressed in specific cell types in ovaries, adrenal glands and pancreas, and in mast cells. The exact function of this gene is not known, however, available data suggest its role in cell growth, spermiogenesis, vesicular trafficking and secretion. Accumulation of antizyme inhibitor 2 has also been observed in brains of patients with Alzheimer's disease. There has been confusion in literature and databases over the nomenclature of this gene, stemming from an earlier report that a human cDNA clone (identical to ODCp/AZIN2) had arginine decarboxylase (ADC) activity (PMID:14738999). Subsequent studies in human and mouse showed that antizyme inhibitor 2 was devoid of arginine decarboxylase activity (PMID:19956990). Alternatively spliced transcript variants have been described for this gene.
Product Categories/Family for anti-AZIN2 antibody	Polyclonal; Drugs and Drug Metabolism; Various

NCBI AND UNIPROT INFORMATION

NCBI GI #	16506287
NCBI GeneID	113451
NCBI Accession #	NP_443724
NCBI GenBank Nucleotide #	NM_052998
UniProt Accession #	Q96A70
Molecular Weight	50kDa
NCBI Official Full Name	antizyme inhibitor 2 isoform 1
NCBI Official Synonym Full Names	antizyme inhibitor 2
NCBI Official Symbol	AZIN2
NCBI Official Synonym Symbols	ADC; AZI2; ODCp; AZIB1; ODC-p; ODC1L
NCBI Protein Information	antizyme inhibitor 2
UniProt Protein Name	Antizyme inhibitor 2
UniProt Gene Name	AZIN2
UniProt Synonym Gene Names	ADC; KIAA1945; ODCP; Azi2; ADC; ARGDC; ODC-like protein; ODC-p

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.