Datasheet for ABIN4886479

anti-ADC antibody (AA 111-301)

3 Images

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Overview

Quantity:	100 µg
Target:	ADC
Binding Specificity:	AA 111-301
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADC antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Antizyme inhibitor 2(AZIN2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E. coli-derived human AZIN2 recombinant protein (Position: C111-Q301). Human AZIN2 shares 89.4% amino acid (aa) sequence identity with mouse AZIN2.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Antizyme inhibitor 2(AZIN2) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: antizyme inhibitor 2 Protein Name: Antizyme inhibitor 2
Purification:	Immunogen affinity purified.

Target Details

Target:	ADC
Alternative Name:	AZIN2 (ADC Products)
Background:	Antizyme inhibitor 2 (AzI2), also known as arginine decarboxylase (ADC), is an enzyme that in humans is encoded by the AZIN2 gene. 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. Synonyms: ADC | Antizyme inhibitor 2 | ArgDC | Arginine decarboxylase | AZI2 | ODC-p | ODC-paralogue | ODC1L | ODCp | Q96A70
Gene ID:	113451
UniProt:	Q96A70

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Application Details

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

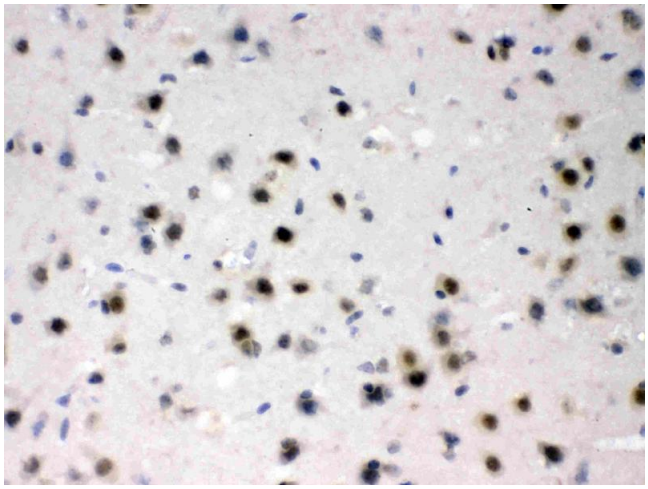
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images

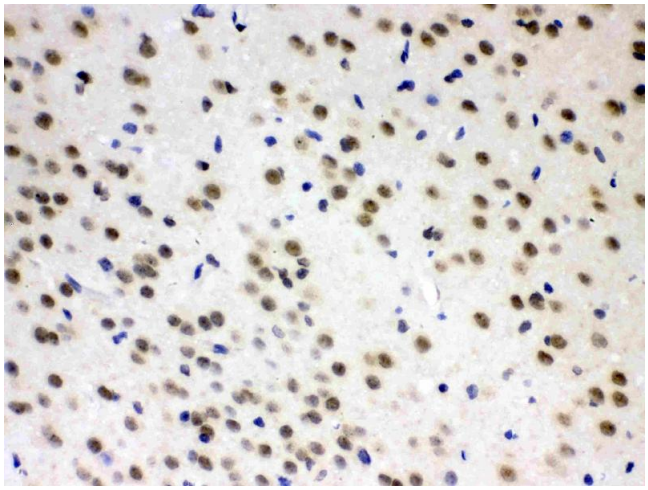
Western Blotting

Image 1. Western blot analysis of AZIN2 expression in rat brain extract (Lane 1), mouse brain extract (Lane 2) and HELA whole cell lysates (Lane 3). AZIN2 at 50KD was detected using rabbit anti- AZIN2 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).



Immunohistochemistry

Image 2. AZIN2 was detected in paraffin-embedded sections of mouse brain tissues using rabbit anti- AZIN2 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 3. AZIN2 was detected in paraffin-embedded sections of rat brain tissues using rabbit anti- AZIN2 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 ??g/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).