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Datasheet for ABIN6137388 anti-Antizyme Inhibitor 1 antibody (AA 289-448)



Overview

Image

| Overview | |
|----------------------|---|
| Quantity: | 100 µL |
| Target: | Antizyme Inhibitor 1 (AZIN1) |
| Binding Specificity: | AA 289-448 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Antizyme Inhibitor 1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |
| Product Details | |
| Immunogen: | Recombinant fusion protein containing a sequence corresponding to amino acids 289-448 of human AZIN1 (NP_056962.2). |
| Sequence: | AKKVVENDKF PSGVEKTGSD EPAFMYYMND GVYGSFASKL SEDLNTIPEV HKKYKEDEPL FTSSLWGPSC DELDQIVESC LLPELNVGDW LIFDNMGADS FHEPSAFNDF QRPAIYYMMS FSDWYEMQDA GITSDSMMKN FFFVPSCIQL SQEDSFSAEA |
| Isotype: | lgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Characteristics: | Polyclonal Antibodies |
| Purification: | Affinity purification |

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| Target Details | |
|---------------------|---|
| Target: | Antizyme Inhibitor 1 (AZIN1) |
| Alternative Name: | AZIN1 (AZIN1 Products) |
| Background: | 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 1, the first member of this gene |
| | family that is ubiquitously expressed, and is localized in the nucleus and cytoplasm. |
| | Overexpression of antizyme inhibitor 1 gene has been associated with increased proliferation, |
| | cellular transformation and tumorigenesis. Gene knockout studies showed that homozygous |
| | mutant mice lacking functional antizyme inhibitor 1 gene died at birth with abnormal liver |
| | morphology. RNA editing of this gene, predominantly in the liver tissue, has been linked to the |
| | progression of hepatocellular carcinoma. Alternatively spliced transcript variants have been |
| | described for this gene.,AZIN1,AZI,AZI1,AZIA1,OAZI,OAZIN,ODC1L,Signal |
| | Transduction,Endocrine & Metabolism,Amino acid metabolism,AZIN1 |
| Molecular Weight: | 49 kDa |
| Gene ID: | 51582 |
| UniProt: | 014977 |
| Application Details | |
| Application Notes: | WB,1:500 - 1:2000,IHC,1:50 - 1:100 |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Liquid |
| Buffer: | PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3. |
| Preservative: | Sodium azide |
| Precaution of Use: | |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |

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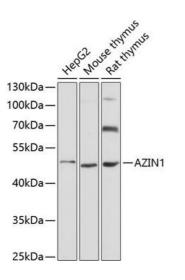
Handling

Storage: -20 °C

Storage Comment:

Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using antibody (ABIN6129201, ABIN6137388, ABIN6137389 and ABIN6220750) at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 10s.