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Datasheet for 100-401-V87

Ash2 Antibody

Overview

Description:	Anti-ASH2 (RABBIT) Antibody - 100-401-V87
Item No.:	100-401-V87
Size:	100 µL
Applications:	ELISA, IF, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Ash2 is a component of the Set1/Ash2 histone methyltransferase (HMT) complex. This complex specifically methylates K4 of histone H3, thereby activating transcription. Methylation of K4 is blocked by premethylation of the neighboring K9, a repressor of transcription. This indicates that the Set1/Ash2 HMT complex mediates the crosstalk between K9 methylation and K4 methylation. Ash2 plays a role in hematopoiesis and may be associated with some kinds of leukemia. Anti-Ash2 Antibody is ideal for research in Gene Expression, Epigenetics, Cell Signaling and Cancer.
Synonyms:	Set1/Ash2 histone methyltransferase complex subunit ASH2, ASH2-like protein, ASH2L1, ASH2L2, Bre2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	ASH2L
Reactivity:	Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Ash2 Antibody was produced in rabbits by repeated immunizations with three different synthetic peptides of mouse Ash2: two containing an amino acid sequence from the internal and one containing an amino acid sequence from the C-terminal part of the protein.

Purity/Specificity:	Anti-Ash2 Antibody is monospecific antiserum processed by delipidation and defibrination followed by sterile filtration. Cross reactivity with Ash2 from other species not tested.
Relevant Links:	• UniProtKB - Q9UBL3 • GeneID - 9070 • NCBI - NP_001098684.1

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-Ash2 Antibody has been tested by ELISA, Immunofluorescence and Western Blots. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 68 kDa in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:100 - 1:500
IF:	1:200
WB:	1:1,000

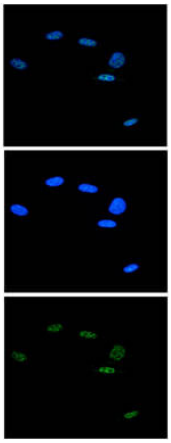
Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	None
Preservative:	0.05% (w/v) Sodium Azide
Stabilizer:	None

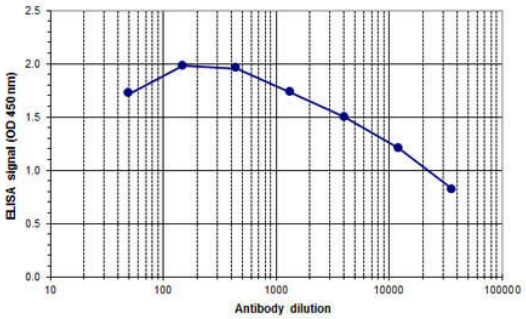
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

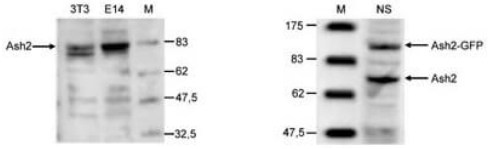
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy results of Rabbit anti-Ash2 antibody. Tissue: NIH3T3 cells. Fixation: 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. Antigen retrieval: not required. Primary antibody: Ash2 antibody at 1:200 for 1 h at RT. Secondary antibody: Alexa488 rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Ash2 is nuclear and occasionally cytoplasmic. Staining: Ash2 as green fluorescent signal with DAPI (blue) nuclear counterstain.



ELISA
ELISA results of Rabbit anti-Ash2 antibody. Antigen: BSA conjugated Ash2. Coating amount: 0.1 µg per well. Dilution series: serial dilution. Estimated Antibody Titer to be 1:24,000. Substrate: TMB (p/n TMBE-1000).



Western Blot
Western Blot results of Rabbit anti-Ash2 antibody. (Image A.) Lane 1: (3T3) NIH3T3 lysates. Lane 2: (E14) embryonic stem cell E14Tg2a lysates. Lane 3 (M): Ladder. Primary antibody (A): Ash2 antibody at 1:1000 for overnight at 4°C. (Image B.) Lane 1 (M): Ladder. Lane 2: (NS) mouse neural stem cell lysates transfected with GFP tagged Ash2. Primary antibody (B): Ash2 antibody at 1:500 for overnight at 4°C. Secondary antibody: goat anti-rabbit HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO/TBS-Tween overnight at 4°C. Predicted: 68kDa endogenous, 106kDa GFP tagged Ash2.

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