

**Datasheet for 100-401-V87****Ash2 Antibody****Overview**

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

**Product Details**

<b>Background:</b>	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.
<b>Synonyms:</b>	Set1/Ash2 histone methyltransferase complex subunit ASH2, ASH2-like protein, ASH2L1, ASH2L2, Bre2
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	Antiserum

**Target Details**

<b>Gene Name:</b>	ASH2L
<b>Reactivity:</b>	Mouse
<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	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

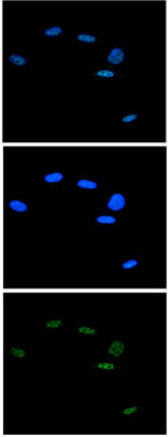
## Shipping & Handling

**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

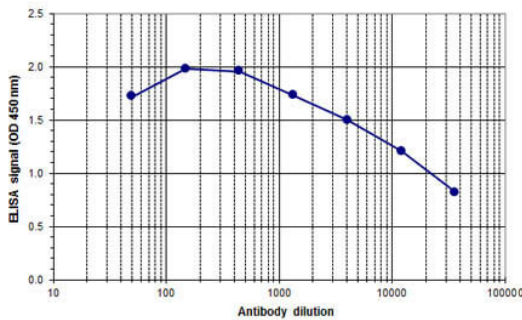


### Immunofluorescence Microscopy

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.

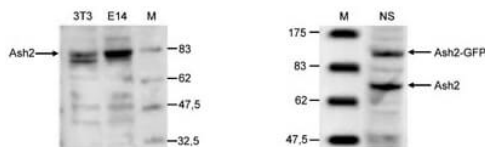
### ELISA

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.



## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.