

# Ash2 polyclonal antibody

Other names: ASH2L, ASH2L1, ASH2L2, Bre2

Cat. No. C15310093 (CS-093-100) Type: Polyclonal Source: Rabbit Lot #: A260-004 Size: 100 µl Concentration: not determined Specificity: Mouse: positive - Other species: not tested.
Purity: Whole antiserum from rabbit containing 0.05% azide.
Storage: Store at -20°C; for long storage, store at -80°C.
Avoid multiple freeze-thaw cycles.
Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Description:** Polyclonal antibody raised in rabbit against mouse Ash2 (absent, small, or homeotic 2), using 3 different KLH-conjugated synthetic peptides, 2 containing an amino acid sequence from the central and 1 containing an amino acid sequence from the C-terminal part of the protein <sup>[1]</sup>.

# **Applications**

	Suggested dilution	References
ELISA	1:100 - 1:500	Fig 1
Western blotting	1:500 - 1:1,000	Fig 2
Immunofluorescence	1:200	Fig 3

## References

1) Peptide design by Andrea Kranz, Western blot analysis by Giovanni Ciotta, Heike Petzold and Andrea Kranz BIOTEC, Dept. of Genomics, Prof. F. Stewart, TU Dresden, Tatzberg 47/49, 01307 Dresden, Germany.

# Target description

Ash2 (UniProtKB/Swiss-Prot entry Q9UBL3) 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.





## Figure 2. Western blot analysis using the Diagenode antibody directed against Ash2<sup>(1)</sup>

- A. Western blot was performed on whole cell lysates from mouse fibroblastst (NIH3T3) and embryonic stem cells (E14Tq2a) with the Diagenode antibody against mouse Ash2 (Cat. No. C15310093), diluted 1:1,000 in BSA/PBS-Tween. The molecular weight marker (in kDa) is shown on the right; the location of the protein of interest (predicted size: 68 kDa) is indicated on the left.
- B. Western blot was performed on whole cell lysates from mouse neural stem cells (NS), transfected with GFP tagged Ash2, with the Diagenode antibody against mouse Ash2 (Cat. No. C15310093), diluted 1:500 in BSA/PBS-Tween. The molecular weight marker (in kDa) is shown on the left; the location of the endogenous Ash2 (68 kDa) and of the GFP tagged Ash2 (106 kDa) are indicated on the right.



## Figure 3. Immunofluorescence using the Diagenode antibody directed against Ash2

NIH3T3 cells were stained with the Diagenode antibody against Ash2 (Cat. No. C15310093) and with DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labelled with the Ash2 antibody (left) diluted 1:200 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa488. The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.

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Ash2-GFP

Ash2