diagenode

Technical Data Sheet

Diagenode sa
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Product name:
antibody directed against hASH2

(human ASH2 like protein; Absent, small or homeotic discs 2)

Other names: Ash2, ASH2L

Catalog #: pAb-026-050	**Type:** Polyclonal	**Size:** 50 µg/ 25 µl
Lot #: 001	**Source:** Rabbit	**Concentration:** 2.0 µg/µl

Description: This antibody has been raised against recombinant human ASH2.

ASH2 is a component of the Set1/Ash2 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3, but not if the neighbouring 'Lys-9' residue is already methylated. ASH2 may also play a role in hematopoiesis (see overview below).

Specificity: Human: positive
Other species: not tested

Applications	Suggested dilution	References
ELISA	Not tested	
Dot blotting	Not tested	
Western blotting	1:1,000	Fig 1
Gel Supershift	Not tested	
Immunochemistry	Not tested	
Flow cytometry	Not tested	
Immunoprecipitation	Not tested	
ChIP	Not tested	

Format: In solution in PBS including 0.05% azide and 0.05% ProClin 300. The polyclonal antibody has been protein G purified.

Storage: For long storage, store at -20°C/ -80°C. Avoid multiple freeze-thaw cycles.

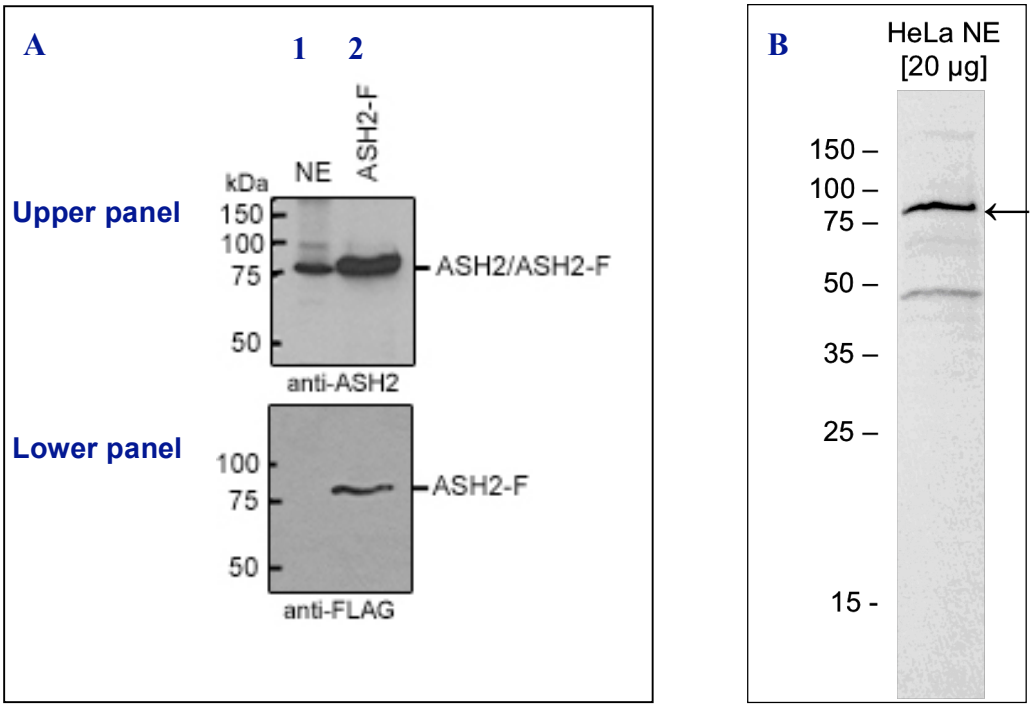
Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

References:
[1]. Ikegawa S., Isomura M., Koshizuka Y. and Nakamura Y. 1999. *Cytogenet Cell Genet.* 84: 167-72.

Availability date: March 23, 2007. Last data sheet update: June 29, 2007

Lot #: 001: rabbit#1/ bleed day: final bleed/ purification day: March 21, 2007

Figure 1:



Western blot analysis using the Diagenode antibody anti-hASH2

Panel A: Western blot was performed using crude serum directed against hASH2 at dilution 1:1,000 in TBS-Tween + 5% skimmed milk. The antibody recognizes ectopically expressed FLAG-tagged ASH2 (ASH2-F) in extracts (lane 2) and a protein of correct size in nuclear extracts from HeLa cells (lane 1). On the left side, a molecular weight marker is shown. The upper panel shows immunostaining using anti-ASH2 antibodies, the lower panel is the immunostaining of the same western blot with anti-FLAG antibodies.

Panel B: Western blot was performed on HeLa nuclear extract (HeLa NE, 20 µg) using the Diagenode purified antibody directed against anti-hASH2 (cat# pAb-026-050) at dilution 1:1,000 in TBS-Tween + 5% skimmed milk. The Diagenode antibody recognizes endogenous human ASH2 in HeLa nuclear extract. On the left side, a molecular weight marker is shown. The arrow indicates the location of the protein of interest.

Overview

Drosophila ash2 ('absent, small, or homeotic discs-2') belongs to the trithorax gene family. The ash2 product positively regulates expression of homeotic selector genes and is implicated in early development and formation of various disc patterns in the fruit fly. In human, a gene highly homologous to Drosophila ash2 was identified and was named ash2-like (ASH2L) [1] (UniProtKB/Swiss-Prot entry Q9UBL3: http://www.expasy.org/uniprot/Q9UBL3)