

Product datasheet for **TA347079**

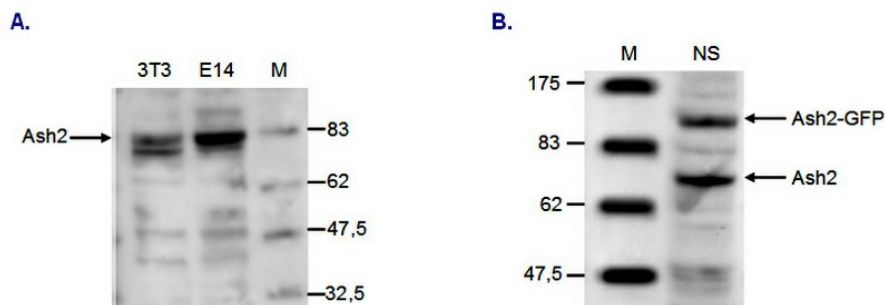
ASH2L Rabbit Polyclonal Antibody

Product data:

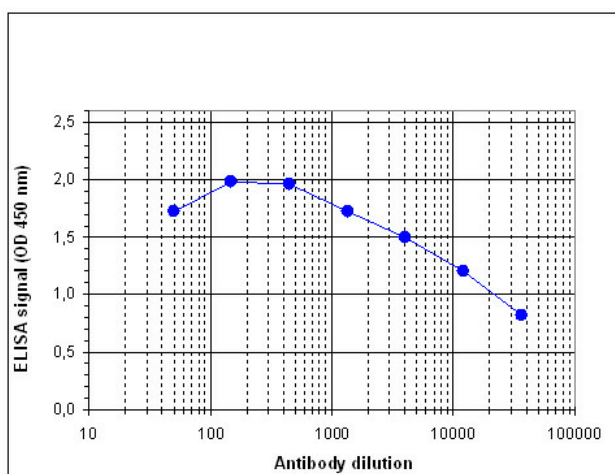
Product Type:	Primary Antibodies
Applications:	ELISA, IF, WB
Recommended Dilution:	ELISA (1:100 ?? 1:500) ; Western blotting (1:500 - 1:1,000); IF: (1:200)
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-ASH2 antibody: mouse Ash2 (absent, small, or 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
Concentration:	lot specific
Purification:	Whole antiserum from rabbit containing 0.05% azide.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	ASH2 like histone lysine methyltransferase complex subunit
Database Link:	NP_004665 Entrez Gene 23808 Mouse Q9UBL3
Background:	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.
Synonyms:	ASH2; ASH2L1; ASH2L2; Bre2
Protein Families:	Druggable Genome, Transcription Factors



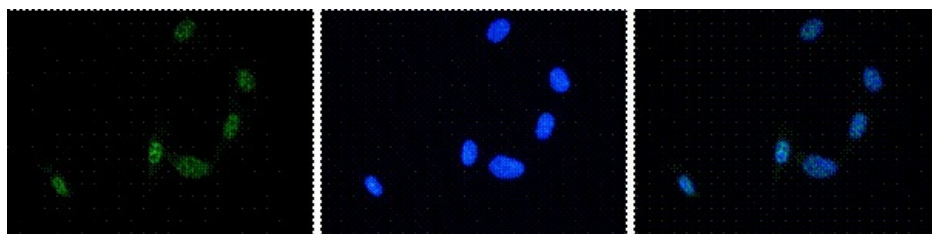
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Product images:
Figure 2


WB was performed on whole cell lysates from mouse fibroblast (NIH3T3) and embryonic stem cells (E14Tg2a) with the ab at 1:1,000 (predicted size: 68 kDa). B. WB was performed on whole cell lysates from mouse neural stem cells (NS), transfected with GFP tagged Ash2, with the ab against mouse Ash2, 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.



Determination of the titer To determine the titer, an ELISA was performed using a serial dilution of the antibody against mouse Ash2. The wells were coated with the peptides used for immunisation of the rabbit. By plotting the absorbance against the antibody dilution (Figure 1), the titer of the antibody was estimated to be 1:24,000.



NIH3T3 cells were stained with the ab against Ash2 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.