Product Datasheet

ASXL1 Antibody (6E2) - Azide and BSA Free
H00171023-M05

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

Publications: 3

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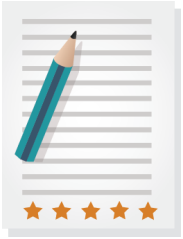
www.novusbio.com/H00171023-M05

Updated 2/21/2025 v.20.1



H00171023-M05

ASXL1 Antibody (6E2) - Azide and BSA Free

Product Information

Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	6E2
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4

Product Description

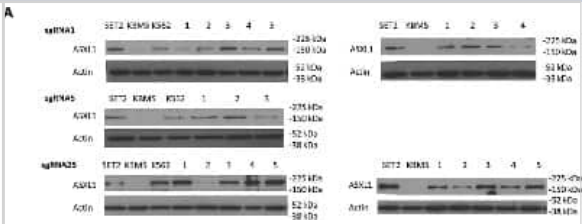
Host	Mouse
Gene ID	171023
Gene Symbol	ASXL1
Species	Human
Immunogen	ASXL1 (AAH64984.1, 1 a.a. ~ 84 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MKDKQKKKKERTWAEAARLVLENYSDAPMTPKQILQVIEAEGLKEMSGTSPLA CLNAMLHSNSRGGEGLFYKLPGRISLFTLKR
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details

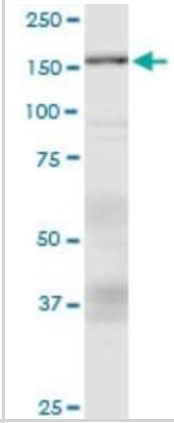
Applications	Western Blot, ELISA, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100-1:2000, ELISA 1:100-1:2000, Immunoprecipitation
Application Notes	This antibody is useful for ELISA, Western Blot. Use in immunoprecipitation reported in scientific literature (PMID: 24894717).

Images

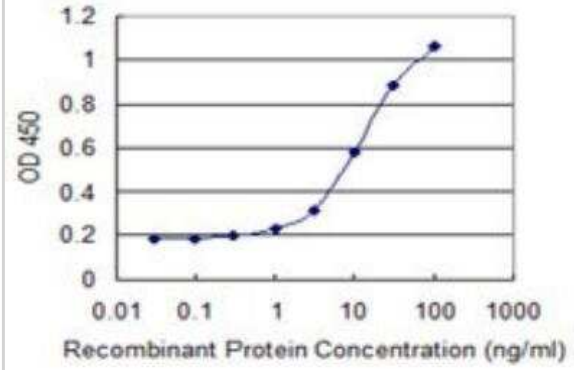
Western Blot: ASXL1 Antibody (6E2) [H00171023-M05] - Functional effects of CRISPR/Cas9-mediated ASXL1 mutation correction. Evaluation of ASXL1 protein expression by Western blotting. Left-hand side: ASXL1 protein expression in the SET2 leukemia cell line (wild-type for ASXL1), uncorrected KBM5 cells, the K562 leukemia cell line (carrying the Y591X heterozygous ASXL1 mutation), and KBM5 clones (labeled 1-5) with heterozygous precise correction of the ASXL1 mutation. Right-hand side: ASXL1 protein expression in the SET2 leukemia cell line (wild-type for ASXL1), uncorrected KBM5 cells, and KBM5 clones (labeled 1-5) with homozygous precise correction of the ASXL1 mutation. Beta-actin was used as loading control. Image collected and cropped by CiteAb from the following publication (//www.oncotarget.com/fulltext/6392) licensed under a CC-BY license.



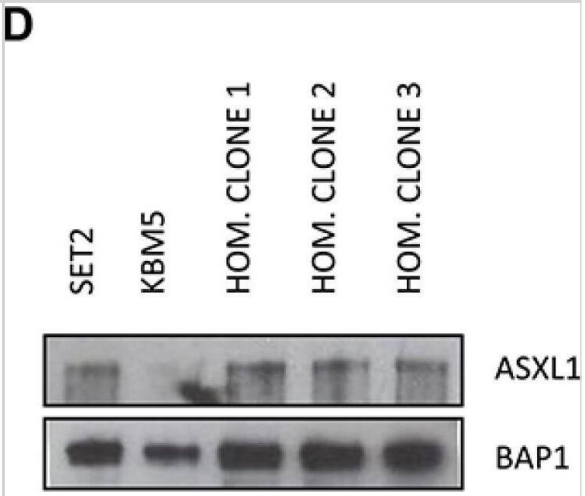
Western Blot: ASXL1 Antibody (6E2) [H00171023-M05] - Analysis of ASXL1 expression in MCF-7 (Cat # L046V1).



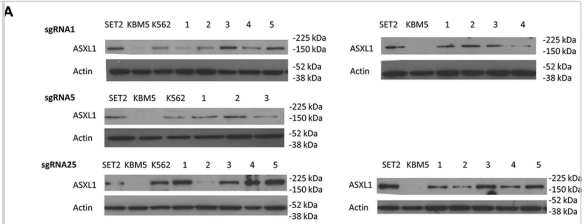
ELISA: ASXL1 Antibody (6E2) [H00171023-M05] - Detection limit for recombinant GST tagged ASXL1 is 0.3 ng/ml as a capture antibody.



Western Blot: ASXL1 Antibody (6E2) [H00171023-M05] - Functional effects of CRISPR/Cas9-mediated ASXL1 mutation correction(A) Evaluation of ASXL1 protein expression by WB. Left: ASXL1 protein expression in SET2 leukemia cell line (wild-type for ASXL1), uncorrected KBM5 cells, the K562 leukemia cell line (carrying the Y591X heterozygous ASXL1 mutation), & KBM5 clones (labeled 1–5) w/ heterozygous precise correction of ASXL1 mutation. Right: ASXL1 protein expression in SET2 leukemia cell line (wild-type for ASXL1), uncorrected KBM5 cells, & KBM5 clones (labeled 1–5) w/ homozygous precise correction of ASXL1 mutation. β-actin used as loading control. (B) Evaluation of expression levels of HOXA genes using quantitative real-time PCR (q-RT-PCR). Expression levels of HOXA5, 6, 7, 9, 10 & 13 measured in three ASXL1 homozygous corrected KBM5 clones compared w/ uncorrected cells. Results shown obtained from six independent experiments for each clone. Values in ASXL1 homozygous corrected cells are relative to uncorrected cells. Bar graphs show mean + standard error of mean (s.e.m.) (* = P < 0.05, ** = P < 0.01, *** = P < 0.001, paired t-test). (C) Evaluation of H3K27me3 levels & expression of PRC2 components by WB in uncorrected KBM5 cells & three KBM5 clones w/ homozygous correction of ASXL1 mutation. H3K27me3 levels & total H3 levels evaluated using purified histone fractions. Expression levels of two PRC2 components (EZH2, SUZ12) determined using whole cell lysates. β-actin used as loading control. (D) Immunoprecipitation of BAP1 in SET2 leukemia cell line (wild-type for ASXL1), uncorrected KBM5 cells, & three KBM5 clones w/ homozygous correction of ASXL1 mutation. The BAP1 protein fraction immunoprecipitated using a BAP1 antibody & stained for ASXL1 & BAP1. Image collected & cropped by CiteAb from the following publication (https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.6392), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: ASXL1 Antibody (6E2) [H00171023-M05] - Functional effects of CRISPR/Cas9-mediated ASXL1 mutation correction(A) Evaluation of ASXL1 protein expression by WB. Left: ASXL1 protein expression in SET2 leukemia cell line (wild-type for ASXL1), uncorrected KBM5 cells, the K562 leukemia cell line (carrying the Y591X heterozygous ASXL1 mutation), & KBM5 clones (labeled 1–5) w/ heterozygous precise correction of ASXL1 mutation. Right: ASXL1 protein expression in SET2 leukemia cell line (wild-type for ASXL1), uncorrected KBM5 cells, & KBM5 clones (labeled 1–5) w/ homozygous precise correction of ASXL1 mutation. β-actin used as loading control. (B) Evaluation of expression levels of HOXA genes using quantitative real-time PCR (q-RT-PCR). Expression levels of HOXA5, 6, 7, 9, 10 & 13 measured in three ASXL1 homozygous corrected KBM5 clones compared w/ uncorrected cells. Results shown obtained from six independent experiments for each clone. Values in ASXL1 homozygous corrected cells are relative to uncorrected cells. Bar graphs show mean + standard error of mean (s.e.m.) (* = P < 0.05, ** = P < 0.01, *** = P < 0.001, paired t-test). (C) Evaluation of H3K27me3 levels & expression of PRC2 components by WB in uncorrected KBM5 cells & three KBM5 clones w/ homozygous correction of ASXL1 mutation. H3K27me3 levels & total H3 levels evaluated using purified histone fractions. Expression levels of two PRC2 components (EZH2, SUZ12) determined using whole cell lysates. β-actin used as loading control. (D) Immunoprecipitation of BAP1 in SET2 leukemia cell line (wild-type for ASXL1), uncorrected KBM5 cells, & three KBM5 clones w/ homozygous correction of ASXL1 mutation. The BAP1 protein fraction immunoprecipitated using a BAP1 antibody & stained for ASXL1 & BAP1. Image collected & cropped by CiteAb from the following publication (https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.6392), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Valletta S, Dolatshad H, Bartenstein M et al. ASXL1 mutation correction by CRISPR/Cas9 restores gene function in leukemia cells and increases survival in mouse xenografts. Oncotarget 2015-12-29 [PMID: 26623729] (WB)

Davies C, Yip BH, Fernandez-Mercado M et al. Silencing of ASXL1 impairs the granulomonocytic lineage potential of human CD34(+) progenitor cells. Br J Haematol. 2013-01-08 [PMID: 23294243]

Ismail IH, Davidson R, Gagne JP et al. Germ-line Mutations in BAP1 Impair its Function in DNA Double-Strand break Repair. Cancer Res. 2014-06-03 [PMID: 24894717] (IP, WB, Human)

Details:
U2OS cells were transfected with control/ASXL1 shRNA for 48 h and the nuclear extracts were processed for WB using ASXL1 and BAP1 antibodies. In another set of experiment, U2OS cells were exposed or not to radiation (6 Gy) followed by recovery for 2 hr and the nuclear extracts were processed for immunoprecipitation using BAP1 or ASXL1 antibodies followed by WB of flow through (FT) and elute (El) and 20% of the input (Supplementary Figure 2 C and D).

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Products Related to H00171023-M05

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
H00171023-P01-10ug	Recombinant Human ASXL1 GST (N-Term) Protein

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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