

Rabbit anti-Mouse ASXL1 Polyclonal Antibody | anti-ASXL1 antibody

ASXL1 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288414	Rabbit	Mouse	Immunofluorescence, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

ASXL1; Polyclonal Antibody; ASXL1 Antibody (Center); Putative Polycomb group protein ASXL1; Additional sex combs-like protein 1; KIAA0978; anti-ASXL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This ASXL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 521-549 amino acids from the Central region of human ASXL1.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	521-549
Sequence Length	479
Applicable Applications for anti-ASXL1 antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Probable Polycomb group (PcG) protein involved in transcriptional regulation mediated by ligand-bound nuclear hormone receptors, such as retinoic acid receptors (RARs) and peroxisome proliferator-activated receptor gamma (PPARG) (PubMed:16606617). Acts as a coactivator of RARA and RXRA through association with NCOA1 (PubMed:16606617). Acts as a corepressor for PPARG and suppresses its adipocyte differentiation-inducing activity (By similarity). Non- catalytic component of the PR-DUB complex, a complex that specifically mediates deubiquitination of histone H2A monoubiquitinated at 'Lys-119' (H2AK119ub1) (PubMed:20436459, PubMed:30664650, PubMed:36180891). Acts as a sensor of N(6)-methyladenine methylation on DNA (6mA): recognizes and binds 6mA DNA, leading to its ubiquitination and degradation by TRIP12, thereby inactivating the PR-DUB complex and regulating Polycomb silencing (PubMed:30982744). The PR-DUB complex is an epigenetic regulator of gene expression and acts as a transcriptional coactivator, affecting genes involved in development, cell communication, signaling, cell proliferation and cell viability (PubMed:30664650, PubMed:36180891). ASXL1, ASXL2 and ASXL3 function redundantly in the PR-DUB complex (By similarity) (PubMed:30664650). The ASXL proteins are essential for chromatin recruitment and transcriptional activation of associated genes (By similarity). ASXL1 and ASXL2 are important for BAP1 protein stability (PubMed:30664650). Together with BAP1, negatively regulates epithelial-mesenchymal transition (EMT) of trophoblast stem cells during placental development by regulating genes involved in epithelial cell integrity, cell adhesion and cytoskeletal organization (PubMed:34170818).
Cellular Location	Nucleus.
Tissue Location	Widely expressed at low level. Expressed in heart, brain, skeletal muscle, placenta, pancreas, spleen, prostate, small intestine, colon, peripheral blood, leukocytes, bone marrow and fetal liver. Highly expressed in testes.
Preparation and Storage	For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Confocal immunofluorescent analysis of ASXL1 Antibody (Center) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).



FCM/FACS (Flow Cytometry)

ASXL1 Antibody (Center) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)

ASXL1 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ASXL1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

ASXL1 Antibody (Center) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the ASXL1 antibody detected the ASXL1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-ASXL1 antibody	This gene is similar to the Drosophila additional sex combs gene, which encodes a chromatin-binding protein required for normal determination of segment identity in the developing embryo. The protein is a member of the Polycomb group of proteins, which are necessary for the maintenance of stable repression of homeotic and other loci. The protein is thought to disrupt chromatin in localized areas, enhancing transcription of certain genes while repressing the transcription of other genes. The protein encoded by this gene functions as a ligand-dependent co-activator for retinoic acid receptor in cooperation with nuclear receptor coactivator 1. Mutations in this gene are associated with myelodysplastic syndromes and chronic myelomonocytic leukemia. Alternative splicing results in multiple transcript variants.
Product Categories/Family for anti-ASXL1 antibody	Signal Transduction
References	Abdel-Wahab, O., et al. Leukemia 24(9):1656-1657(2010) Szpurka, H., et al. Leuk. Res. 34(8):969-973(2010) Sugimoto, Y., et al. Br. J. Haematol. 150(1):83-87(2010) Boultonwood, J., et al. Leukemia 24(6):1139-1145(2010) Rocquain, J., et al. BMC Cancer 10, 401 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	29570782
NCBI GeneID	171023
NCBI Accession #	NP_056153.2
NCBI GenBank Nucleotide #	NM_015338.5
UniProt Accession #	Q8IXJ9; Q5JWS9; Q8IYY7; Q9H466; Q9NQF8; Q9UFJ0; Q9UFP8; Q9Y2I4; B2RP59
Molecular Weight	165448
NCBI Official Full Name	putative Polycomb group protein ASXL1 isoform 1
NCBI Official Synonym Full Names	additional sex combs like transcriptional regulator 1
NCBI Official Symbol	ASXL1
NCBI Official Synonym Symbols	MDS; BOPS
NCBI Protein Information	putative Polycomb group protein ASXL1

UniProt Protein Name	Putative Polycomb group protein ASXL1
UniProt Gene Name	ASXL1
UniProt Synonym Gene Names	KIAA0978
UniProt Entry Name	ASXL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/asxl1-antibody-immunofluorescence-flow-cytometry-immunohistochemistry-western-blot-elisa/288414>