ASXL1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ASXL1, Polyclonal Antibody
Full Product Name	ASXL1 Polyclonal Antibody
Product Gene Name	anti-ASXL1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	53kDa; 165kDa
OMIM	AJ438952 mRNA
3D Structure	ModBase 3D Structure for Q8IXJ9
Immunogen	Recombinant protein of human ASXL1 (NP_056153.2).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ASXL1 antibody	Western Blot (WB)
Application Notes for anti-ASXL1 antibody	WB: 1:500-1:2000
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.
Other Notes	Small volumes of anti-ASXL1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ASXL1 purchase	MBS8574346 is an antibody targeting ASXL1. Also known as ASXL1 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ASXL1. It may not necessarily be applicable to this product.

NCBI GI #	29570782
NCBI GeneID	171023

NCBI Accession #	NP_056153.2
UniProt Primary Accession #	Q8IXJ9
UniProt Related Accession #	Q8IXJ9
GenBank Nucleotide #	NP_056153.2
NCBI Official Full Name	putative Polycomb group protein ASXL1 isoform 1
NCBI Official Synonym Full Names	ASXL transcriptional regulator 1
NCBI Official Symbol	ASXL1
NCBI Official Synonym Symbols	MDS; BOPS
UniProt Protein Name	Putative Polycomb group protein ASXL1
UniProt Synonym Protein Names	Additional sex combs-like protein 1
Protein Family	Putative Polycomb group protein
UniProt Gene Name	ASXL1
UniProt Synonym Gene Names	KIAA0978
NCBI Protein Information	putative Polycomb group protein ASXL1
UniProt Comments for ASXL1	ASXL1: 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). Acts as coactivator of RARA and RXRA through association with NCOA1. Acts as corepressor through recruitment of KDM1A and CBX5 to target genes in a cell-type specific manner; the function seems to involve differential recruitment of methylated histone H3 to respective promoters. Acts as corepressor for PPARG and suppresses its adipocyte differentiation-inducing activity. Non-catalytic component of the PR-DUB complex, a complex that specifically mediates deubiquitination of histone H2A monoubiquitinated at 'Lys-119' (H2AK119ub1). Defects in ASXL1 are the cause of Bohring-Opitz syndrome (BOPS). A syndrome characterized by severe intrauterine growth retardation, poor feeding, profound mental retardation, trigonocephaly, prominent metopic suture, exophthalmos, nevus flammeus of the face, upslanting palpebral fissures, hirsutism, and flexion of the elbows and wrists with deviation of the wrists and metacarpophalangeal joints. Defects in ASXL1 are a cause of myelodysplastic syndrome (MDS). A heterogeneous group of closely related clonal hematopoietic disorders. All are characterized by a hypercellular or hypocellular bone marrow with impaired morphology and maturation, dysplasia of the myeloid, megakaryocytic and/or erythroid lineages, and peripheral blood cytopenias resulting from ineffective blood cell production. Included diseases are: refractory anemia (RA), refractory anemia with ringed sideroblasts (RARS), refractory anemia with excess blasts (RAEB), refractory cytopenia with multilineage dysplasia and ringed sideroblasts (RCMD-RS); chronic myelomonocytic leukemia (CMML) is a myelodysplastic/myeloproliferative disease. MDS is considered a premalignant condition in a subgroup of patients that often progresses to acute myeloid leukemia (AML). Belongs to the Asx family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor co-regulator; Transcription regulation Chromosomal Location of Human Ortholog: 20q11.21 Cellular Component: nucleoplasm Molecular Function: DNA binding; metal ion binding; peroxisome proliferator activated receptor binding; protein binding; retinoic acid receptor binding; transcription coactivator activity Biological Process: bone marrow development; cell morphogenesis; heart morphogenesis; hemopoiesis; homeostasis of number of cells; negative regulation of fat cell differentiation; positive regulation of retinoic acid receptor signaling pathway; positive regulation of transcription from RNA polymerase II promoter; protein deubiquitination; response to retinoic acid; thymus development; transcription, DNA-dependent Disease: Bohring-opitz Syndrome; Myelodysplastic Syndrome
Research Articles on ASXL1	**1.** ASXL1 mutations identified MDS patients predicted to show inferior response to treatment with both hypomethylating agents and lenalidomide.

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