DPY30 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DPY30, Polyclonal Antibody
Full Product Name	DPY30 Antibody
Product Gene Name	anti-DPY30 antibody
Product Synonym Names	Dpy-30-like protein; Dpy-30L; DPY30; DPY30_HUMAN; HDPY-30; Protein dpy-30 homolog; Saf19
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Concentration	1mg/ml (lot specific)
Specificity	DPY30 Antibody detects endogenous levels of total DPY30.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	DPY30 peptide (MBS9631973) is used for blocking the activity of DPY30 antibody (MBS9629590)
Molecular Weight	11,250 Da
OMIM	612032
3D Structure	ModBase 3D Structure for Q9C005
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from Human MYOCD.
Conjugation	Unconjugated
Similarity	Belongs to the dpy-30 family.
Subunit Structure	Homodimer. Core component of several methyltransferase-containing complexes including MLL1/MLL, MLL2/3 (also named ASCOM complex) and MLL4/WBP7. Each complex is at least composed of ASH2L, RBBP5, WDR5, DPY30, one or more specific histone methyltransferases (KMT2A/MLL1, KMT2D/MLL2, KMT2C/MLL3 and KMT2B/MLL4), and the facultative components MEN1, HCFC1, HCFC2, NCOA6, KDM6A, PAXIP1/PTIP, PAGR1 and alpha- and beta-tubulin (By similarity). Interacts with ASH2L; the interaction is direct. Interacts with ARFGEF1. Component of the SET1 complex, at least composed of the catalytic subunit (SETD1A or SETD1B), WDR5, WDR82, RBBP5, ASH2L/ASH2, CXXC1/CFP1, HCFC1 and DPY30.
Function	As part of the MLL1/MLL complex, involved in the methylation of histone H3 at 'Lys-4', particularly trimethylation. Histone H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. May play some role in histone H3 acetylation. In a teratocarcinoma cell, plays a crucial role in retinoic acid-induced differentiation along the neural lineage, regulating gene induction and H3 'Lys-4' methylation at key developmental loci. May also play an indirect or direct role in endosomal transport.
Note	Associated with chromatin at regions enriched in histone H3 trimethylated at 'Lys-4. Highly enriched in gene promoter regions and 5' UTRs, but not in downstream regions of genes or 3' UTRs (By similarity).

Product Categories/Family for anti-DPY30 antibody	Nucleus; Golgi apparatus; trans-Golgi network; Primary
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DPY30 antibody	ELISA (EIA)(peptide)
Application Notes for anti-DPY30 antibody	ELISA(peptide): 1:20000-1:40000
Related Product Information for anti-DPY30 antibody	MBS9629590 is an antibody targeting DPY30. Also known as DPY30 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-DPY30 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPY30. It may not necessarily be applicable to this product.

NCBI GI #	14211889
NCBI GeneID	84661
NCBI Accession #	NP_115963.1
UniProt Primary Accession #	Q9C005
UniProt Secondary Accession #	D6W578
UniProt Related Accession #	Q9C005
GenBank Nucleotide #	NM_032574.3
NCBI Official Full Name	protein dpy-30 homolog isoform 1
NCBI Official Synonym Full Names	dpy-30, histone methyltransferase complex regulatory subunit
NCBI Official Symbol	DPY30
NCBI Official Synonym Symbols	Cps25; Saf19; HDPY-30
UniProt Protein Name	Protein dpy-30 homolog
UniProt Synonym Protein Names	Dpy-30-like protein; Dpy-30L
Protein Family	DPY30 domain-containing protein
UniProt Gene Name	DPY30
UniProt Synonym Gene Names	Dpy-30L
UniProt Entry Name	DPY30_HUMAN
NCBI Protein Information	protein dpy-30 homolog

UniProt Comments for DPY30	DPY30: As part of the MLL1/MLL complex, involved in the methylation of histone H3 at 'Lys-4', particularly trimethylation. Histone H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. May play some role in histone H3 acetylation. In a teratocarcinoma cell, plays a crucial role in retinoic acid-induced differentiation along the neural lineage, regulating gene induction and H3 'Lys-4' methylation at key developmental loci. May also play an indirect or direct role in endosomal transport. Belongs to the dpy-30 family. Chromosomal Location of Human Ortholog: 2p22.3 Cellular Component: Golgi apparatus; histone methyltransferase complex; nucleoplasm; nucleus; trans-Golgi network Molecular Function: histone lysine N-methyltransferase activity (H3-K4 specific); histone-lysine N-methyltransferase activity; identical protein binding; protein binding; protein homodimerization activity Biological Process: chromatin silencing at telomere; endosome transport; histone H3-K4 methylation
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