Histone-lysine N-methyltransferase NSD2 Antibody

Mouse Monoclonal Antibody [Clone PCRP-WHSC1-2A11]

Catalog No	Format	Size
7468-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7468-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7468-MSM1-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details

Clone	PCRP-WHSC1-2A11
Immunogen	Recombinant human NSD2 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG
Mol. Weight of Antigen	152.26kDa
Cellular Localization	Chromosome, Cytoplasm, Nucleolus, Nucleus
Species Reactivity	Human
Positive Control	Widely expressed (PubMed:18172012, PubMed:9618163)

**Optimal dilution for a specific application should be determined.*

Product Images for Histone-lysine N-methyltransferase NSD2 Antibody

Specificity & Comments

Histone methyltransferase which specifically dimethylates nucleosomal histone H3 at 'Lys-36' (H3K36me2) (PubMed:19808676, PubMed:22099308, PubMed:27571355, PubMed:29728617, PubMed:33941880). Also monomethylates nucleosomal histone H3 at 'Lys-36' (H3K36me) in vitro (PubMed:22099308). Does not trimethylate nucleosomal histone H3 at 'Lys-36' (H3K36me3) (PubMed:22099308). However, specifically trimethylates histone H3 at 'Lys-36' (H3K36me3) at euchromatic regions in embryonic stem (ES) cells (By similarity). By methylating histone H3 at 'Lys-36', involved in the regulation of gene transcription during various biological processes (PubMed:16115125, PubMed:22099308, PubMed:29728617). In ES cells, associates with developmental transcription factors such as SALL1 and represses inappropriate gene transcription mediated by histone deacetylation (By similarity). During heart development, associates with transcription factor NKX2-5 to repress transcription of NKX2-5 target genes (By similarity). Plays an essential role in adipogenesis, by regulating expression of genes involved in pre-adipocyte differentiation (PubMed:29728617). During T-cell receptor (TCR) and CD28-mediated T-cell activation, promotes the transcription of transcription factor BCL6 which is required for follicular helper T (Tfh) cell differentiation (By similarity). During B-cell development, required for the generation of the B1 lineage (By similarity). During B2 cell activation, may contribute to the control of isotype class switch recombination (CRS), splenic germinal center formation, and the humoral immune response (By similarity). Plays a role in class switch recombination of the immunoglobulin heavy chain (IgH) locus during B-cell activation (By similarity). By regulating the methylation of histone H3 at 'Lys-36' and histone H4 at 'Lys-20' at the IgH locus, involved in TP53BP1 recruitment to the IgH switch region and promotes the transcription of IgA (By similarity)., Histone methyltransferase which specifically dimethylates nucleosomal histone H3 at 'Lys-36' (H3K36me2)., Histone methyltransferase which specifically dimethylates nucleosomal histone H3 at 'Lys-36' (H3K36me2) (PubMed:22099308). Methylation of histone H3 at 'Lys-27' is controversial (PubMed:18172012, PubMed:22099308). Mono-, di- or tri-methylates histone H3 at 'Lys-27' (H3K27me, H3K27me2 and H3K27me3) (PubMed:18172012). Does not methylate histone H3 at 'Lys-27' (PubMed:22099308). May act as a transcription regulator that binds DNA and suppresses IL5 transcription through HDAC recruitment (PubMed:11152655, PubMed:18172012).

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty