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(Mouse) Wdr5 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20952a

Product Information

Application	WB, E
Primary Accession	P61965
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB51707
Calculated MW	36588

Additional Information

Gene ID	140858
Other Names	WD repeat-containing protein 5, BMP2-induced 3-kb gene protein, WD repeat-containing protein BIG-3, Wdr5, Big, Big3
Target/Specificity	This Mouse Wdr5 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from the region of mouse Wdr5.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	(Mouse) Wdr5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Wdr5
Synonyms	Big, Big3
Function	Contributes to histone modification (By similarity). May position the N-terminus of histone H3 for efficient trimethylation at 'Lys-4' (By similarity). As part of the MLL1/MLL complex it is involved in methylation and

dimethylation at 'Lys-4' of histone H3 (By similarity). H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation (By similarity). As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues (By similarity). May regulate osteoblasts differentiation (PubMed:11551928). In association with RBBP5 and ASH2L, stimulates the histone methyltransferase activities of KMT2A, KMT2B, KMT2C, KMT2D, SETD1A and SETD1B (By similarity).

Cellular Location Nucleus.

Tissue Location Expressed in liver (at protein level). Detected in brain, testis and kidney.

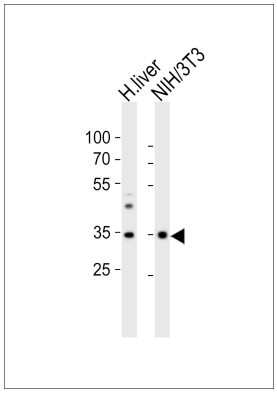
Background

Contributes to histone modification. May position the N- terminus of histone H3 for efficient trimethylation at 'Lys-4'. As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. May regulate osteoblasts differentiation (By similarity).

References

Gori F.,et al.J. Biol. Chem. 276:46515-46522(2001).
Carninci P.,et al.Science 309:1559-1563(2005).
Jiang H.,et al.Cell 144:513-525(2011).
Yang Y.J.,et al.Cell 151:1097-1112(2012).
Diao Y.,et al.Cell Stem Cell 11:231-241(2012).

Images



Western blot analysis of lysates from human liver tissue and mouse NIH/3T3 cell line(from left to right), using (Mouse) Wdr5 Antibody(Cat. #AP20952a). AP20952a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.