

anti- CTR9 antibody

Product Information

Catalog No.:	FNab02063
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

Component of the PAF1 complex(PAF1C) which has multiple functions during transcription by RNA polymerase II and is implicated in regulation of development and maintenance of embryonic stem cell pluripotency. PAF1C associates with RNA polymerase II through interaction with POLR2A CTD non-phosphorylated and 'Ser-2'-and 'Ser-5'-phosphorylated forms and is involved in transcriptional elongation, acting both independently and synergistically with TCEA1 and in cooperation with the DSIF complex and HTATSF1. PAF1C is required for transcription of Hox and Wnt target genes. PAF1C is involved in hematopoiesis and stimulates transcriptional activity of KMT2A/MLL1; it promotes leukemogenesis through association with KMT2A/MLL1-rearranged oncoproteins, such as KMT2A/MLL1-MLLT3/AF9 and KMT2A/MLL1-MLLT1/ENL. PAF1C is involved in histone modifications such as ubiquitination of histone H2B and methylation on histone H3 'Lys-4'(H3K4me3). PAF1C recruits the RNF20/40 E3 ubiquitin-protein ligase complex and the E2 enzyme UBE2A or UBE2B to chromatin which mediate monoubiquitination of 'Lys-120' of histone H2B(H2BK120ub1); UB2A/B-mediated H2B ubiquitination is proposed to be coupled to transcription. PAF1C is involved in mRNA 3' end formation probably through association with cleavage and poly(A) factors. In case of infection by influenza A strain H3N2, PAF1C associates with viral NS1 protein, thereby regulating gene transcription. Required for mono-and trimethylation on histone H3 'Lys-4'(H3K4me3) and dimethylation on histone H3 'Lys-79'(H3K4me3).Required for Hox gene transcription. Required for the trimethylation of histone H3 'Lys-4'(H3K4me3) on genes involved in stem cell pluripotency; this function is synergistic with CXXC1 indicative for an

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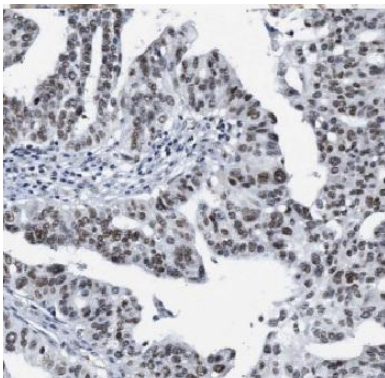
involvement of the SET1 complex. Involved in transcriptional regulation of IL6-responsive genes and in JAK-STAT pathway; may regulate DNA-association of STAT3(By similarity).

Immunogen information

Immunogen: Ctr9, Paf1/RNA polymerase II complex component, homolog(S. cerevisiae)
Synonyms: KIAA0155, SH2BP1
Observed MW: 130-150kd
UniprotID : Q6PD62

Application

Reactivity: Human, Mouse
Tested Application: ELISA, WB, IHC
Recommended dilution: WB: 1:500-1:2000; IHC: 1:20-1:200
Image:



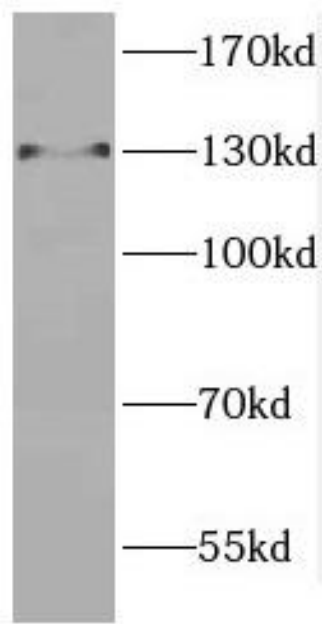
Immunohistochemistry of paraffin-embedded human ovary tumor using FNab02063(CTR9 antibody) at dilution of 1:50

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HeLa cells were subjected to SDS PAGE followed by western blot with FNab02063(CTR9 antibody) at dilution of 1:500