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Datasheet for ABIN7118709 anti-CTR9 antibody



Overview	
Quantity:	100 µg
Target:	CTR9
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CTR9 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	Ctr9, Paf1/RNA polymerase II complex component, homolog(S. cerevisiae)
Isotype:	lgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE
Target Details	
Target:	CTR9

Alternative Name:	CTR9 (CTR9 Products)
Background:	Synonyms:KIAA0155, SH2BP1 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

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'Ser-5'-phosp	horylated forms and is involved in transcriptional elongation, acting both
indepentently	y and synergistically with TCEA1 and in cooperation with the DSIF complex and
HTATSF1. PA	AF1C is required for transcription of Hox and Wnt target genes. PAF1C is involved
in hematopo	iesis and stimulates transcriptional activity of KMT2A/MLL1, it promotes
leukemogene	esis through association with KMT2A/MLL1-rearranged oncoproteins, such as
KMT2A/MLL	1-MLLT3/AF9 and KMT2A/MLL1-MLLT1/ENL. PAF1C is involved in histone
modification	s 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 UBE	2A 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 NS	1 protein, thereby regulating gene transcription. Required for mono-and
trimethylatio	n on histone H3 'Lys-4'(H3K4me3) and dimethylation on histone H3 'Lys-
79'(H3K4me	3). Required for Hox gene transcription. Required for the trimethylation of histone
H3 'Lys-4'(H3	3K4me3) on genes involved in stem cell pluripotency, this function is synergistic
with CXXC1 i	ndicative for an 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 sir	milarity).

Molecular Weight:	130-150kd
Gene ID:	9646
UniProt:	Q6PD62
Pathways:	Cellular Response to Molecule of Bacterial Origin, Stem Cell Maintenance

Application Details

Application Notes:	WB: 1:500-1:2000, IHC: 1:20-1:200, IF: 1:20-1:200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,
Preservative:	Sodium azide

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Handling	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C for 12 months (Avoid repeated freeze / thaw cycles.)
Expiry Date:	12 months

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