



Rabbit Anti-CTR9 antibody

SL3697R

Product Name:	CTR9
Chinese Name:	血小板活化因子CTR9抗体
Alias:	SH2BP1; TSBP; Ctr 9; Ctr9; Ctr9 Paf1/RNA polymerase II complex component, homolog; p150; RNA polymerase associated protein CTR9 homolog; SH2 binding phosphoprotein; SH2 domain binding protein 1 (tetra-tricopeptide repeat containing); TPR containing SH2 binding phosphoprotein; Paf1/RNA polymerase II complex component homolog Ctr9; SH2 domain binding protein 1; CTR9_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	133kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CTR9:751-850/1173
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	CTR9 is a component of the PAF (polymerase-associated factor) complex which interacts with histone-modifying enzymes and RNA polymerase II and plays a role in a number of transcription-related processes. Recent studies show that CTR9 can regulate

IL-6-responsive gene transcription by influencing histone methylation.

Function:

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 MLL1; it promotes leukemogenesis through association with MLL-rearranged oncoproteins, such as MLL-MLLT3/AF9 and MLL-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 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).

Subunit:

Component of the mammalian PAF1 complex, which consists of CDC73, PAF1, LEO1, CTR9, RTF1 and WDR61. Interacts with MLL. Interacts with STAT3 (By similarity).

Subcellular Location:

Nucleus speckle (By similarity). Note=Found in speckles (By similarity).

Tissue Specificity:

Widely expressed.

Similarity:

Contains 16 TPR repeats.

SWISS:

Q6PD62

Gene ID:

9646

Database links:

[Entrez Gene: 9646](#)Human

[Entrez Gene: 22083](#)Mouse

[Entrez Gene: 293184](#)Rat

[Oimim: 609366](#)Human

[SwissProt: Q6PD62](#)Human

[SwissProt: Q62018](#)Mouse

[Unigene: 725151](#)Human

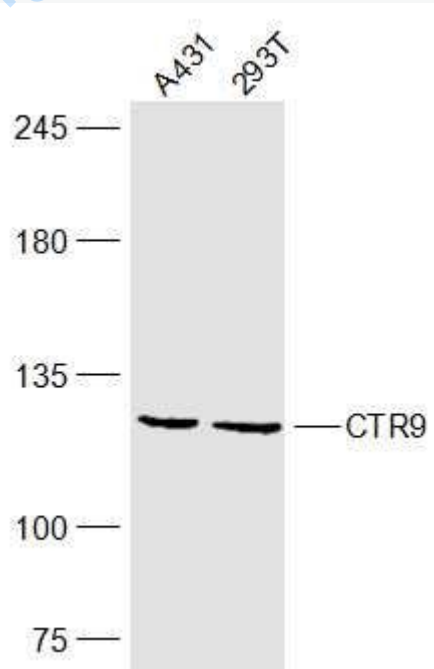
[Unigene: 255858](#)Mouse

[Unigene: 102000](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

A431(Human)Cell Lysate at 30 ug

293T(Human) Cell Lysate at 30 ug

Primary: Anti-CTR9 (SL3697R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 133 kD

Observed band size: 123 kD

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