

CTR9 antibody - C-terminal region

Rabbit Polyclonal Antibody Catalog # AI15141

Product Information

Application WB Primary Accession Q6PD62

Other Accession NM 014633, NP 055448

ReactivityHuman, Mouse, Rat, Pig, Dog, Guinea Pig, Horse, Bovine **Predicted**Human, Mouse, Rat, Pig, Dog, Guinea Pig, Horse, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 133502

Additional Information

Gene ID 9646

Alias Symbol KIAA0155, SH2BP1, TSBP, p150, p150TSP

Other Names RNA polymerase-associated protein CTR9 homolog, SH2 domain-binding

protein 1, CTR9, KIAA0155, SH2BP1

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium

azide and 2% sucrose.

Reconstitution & Storage Add 50 ul of distilled water. Final anti-CTR9 antibody concentration is 1 mg/ml

in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C.

Avoid repeat freeze-thaw cycles.

Precautions CTR9 antibody - C-terminal region is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name CTR9

Synonyms KIAA0155, SH2BP1

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 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 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).

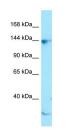
Cellular Location Nucleus speckle {ECO:0000250 | UniProtKB:Q62018}.

Tissue Location Widely expressed..

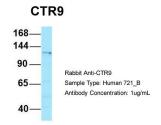
References

Nagase T.,et al.DNA Res. 2:167-174(1995).
Ohara O.,et al.Submitted (AUG-1995) to the EMBL/GenBank/DDBJ databases.
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Zhu B.,et al.Genes Dev. 19:1668-1673(2005).
Zhu B.,et al.Mol. Cell 20:601-611(2005).

Images



WB Suggested Anti-CTR9 Antibody Titration: 1.0 μg/ml Positive Control: Jurkat Whole CellCTR9 is supported by BioGPS gene expression data to be expressed in Jurkat



Host:Rabbit
Target Name:CTR9
Sample Tissue:Human 721_B
Antibody Dilution: 1.0µg/mlCTR9 is supported by BioGPS gene expression data to be expressed in 721_B

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