

#12619 Store at -20°C

**CTR9 (D1Z4F) Rabbit mAb****Cell Signaling**  
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

**For Research Use Only. Not for Use in Diagnostic Procedures.**

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| WB, IP        | H M R       | Endogenous   | 140       | Rabbit IgG      | #Q6PD62     | 9646            |

**Product Usage Information****Application**Western Blotting  
Immunoprecipitation**Dilution**1:1000  
1:50**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

CTR9 (D1Z4F) Rabbit mAb recognizes endogenous levels of total CTR9 protein.

**Species predicted to react based on 100% sequence homology:**

Hamster, Chicken, Xenopus, Zebrafish, Bovine, Dog, Pig

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human CTR9 protein.

**Background**

The PAF (RNA polymerase II (RNAPII) associated factor) complex was initially identified in yeast and is comprised of subunits PAF1, Leo1, Ctr9, Cdc73, RTF1 and Ski8 (1,2). The PAF complex plays an important role in transcription initiation and elongation by RNAPII by regulating the establishment of proper histone modifications such as histone H2B ubiquitination and the recruitment of the histone chaperone FACT (facilitates chromatin transcription) (3-5). The PAF complex also plays a role in mRNA processing and maturation by interacting with and recruiting the cleavage and polyadenylation specificity factor and cleavage stimulation factor complexes via the Cdc73 subunit (6,7). In addition, the Ski8 subunit of the PAF complex is part of the hSKI complex that regulates RNA surveillance, suggesting an important function of the complex in coordinating events associated with proper RNA maturation during transcription (1,5).

**Background References**

1. Jaehning, J.A. (2010) *Biochim Biophys Acta* 1799, 379-88.
2. Chaudhary, K. et al. (2007) *Oncogene* 26, 7499-507.
3. Pavri, R. et al. (2006) *Cell* 125, 703-17.
4. Rozenblatt-Rosen, O. et al. (2005) *Mol Cell Biol* 25, 612-20.
5. Zhu, B. et al. (2005) *Genes Dev* 19, 1668-73.
6. Rozenblatt-Rosen, O. et al. (2009) *Proc Natl Acad Sci U S A* 106, 755-60.
7. Farber, L.J. et al. (2010) *Mol Carcinog* 49, 215-23.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key****WB:** Western Blotting **IP:** Immunoprecipitation**Cross-Reactivity Key**

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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