Revision 1

Store at -20C

#13945

INTS9 Antibody

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, ChIP	H M R Mk	Endogenous	75	Rabbit	#Q9NV88	55756

Product Usage Information

For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10^6 cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100
Chromatin IP	1:50

Storage

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

Specificity/Sensitivity

INTS9 Antibody recognizes endogenous levels of total INTS9 protein.

Species predicted to react based on 100% sequence homology

Hamster, Bovine, Dog, Pig

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His601 of human INTS9 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The integrator complex is an evolutionarily conserved complex that is composed of at least 12 subunits in humans. It is thought to be a multifunctional complex with roles in orchestrating snRNA 3' end processing with transcription termination, DNA double-stranded break repair, hematopoietic development, and cell cycle progression (1-6). The integrator subunits (INTS) 9 and 11 are thought to be the catalytic subunits of the complex and are essential for the function of the complex (6,7). Research studies indicate that the integrator complex is recruited to snRNA genes through its interaction with the carboxy-terminal domain (CTD) of Rpb1, the largest subunit of RNA polymerase II (8). Phosphorylation of the Rpb1 CTD heptapeptide repeat residues Ser2 and Ser7 is required for efficient binding of integrator subunit proteins (9).

Background References

1. Chen, J. and Wagner, E.J. (2010) *Biochem Soc Trans* 38, 1082-7.
2. O'Reilly, D. et al. (2014) *Nucleic Acids Res* 42, 264-75.
3. Tao, S. et al. (2009) *Development* 136, 2757-65.
4. Huang, J. et al. (2009) *Mol Cell* 35, 384-93.
5. Li, Y. et al. (2009) *J Biol Chem* 284, 23525-31.
6. Dominski, Z. et al. (2005) *Mol Cell Biol* 25, 1489-500.
7. Albrecht, T.R. and Wagner, E.J. (2012) *Mol Cell Biol* 32, 1112-23.
8. Baillat, D. et al. (2005) *Cell* 123, 265-76.
9. Egloff, S. et al. (2010) *J Biol Chem* 285, 20564-9.

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

W: Western Blotting **IP:** Immunoprecipitation **ChIP:** Chromatin IP

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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