

#5313  
Store at -20C**RBPSUH (D10A4) XP<sup>®</sup> Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P, ChIP	H M R Mk	Endogenous	61	Rabbit IgG	#Q06330	3516

**Product Usage Information**

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

**Application**

Western Blotting  
Immunohistochemistry (Paraffin)  
Chromatin IP

**Dilution**

1:1000  
1:2600  
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.

For a carrier free (BSA and azide free) version of this product see product #26978.

**Specificity/Sensitivity**

RBPSUH (D10A4) XP<sup>®</sup> Rabbit mAb recognizes endogenous levels of total RBPSUH protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln110 of human RBPSUH protein.

**Background**

RBPSUH (**R**ecombining **B**inding Protein, **S**uppressor of **H**airless), also termed RBP-J or CSL, is the DNA-binding component of the transcription complex regulated by canonical Notch signaling. In the absence of Notch activation, RBPSUH suppresses target gene expression through interactions with a co-repressor complex containing histone deacetylase. Upon activation of Notch receptors, the Notch intracellular domain (NICD) translocates to the nucleus and binds to RBPSUH. This displaces the co-repressor complex and replaces it with a transcription activation complex that includes Mastermind-like (MAML) proteins and histone acetylase p300, leading to transcriptional activation of Notch target genes (1-3). RBPSUH is also the DNA-binding partner for Epstein-Barr virus (EBV) nuclear antigen 2 (EBNA2), a protein critical for latent viral transcription and immortalization of EBV-infected B cells (4,5).

**Background References**

1. Ehebauer, M. et al. (2006) *Sci STKE* 2006, cm7.
2. Borggreffe, T. and Oswald, F. (2009) *Cell Mol Life Sci* 66, 1631-46.
3. Kopan, R. and Ilagan, M.X. (2009) *Cell* 137, 216-33.
4. Henkel, T. et al. (1994) *Science* 265, 92-5.
5. Strobl, L.J. et al. (1997) *Immunobiology* 198, 299-306.

**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<sup>®</sup> 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IHC-P:** Immunohistochemistry (Paraffin) **ChIP:** Chromatin IP

**Cross-Reactivity Key**

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

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