5313 store at -200

RBPSUH (D10A4) XP® Rabbit mAb



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Applications:Reactivity:Sensitivity:MW (kDa):Source/Isotype:UniProt ID:Entrez-Gene Id:WB, IHC-P, ChIPH M R MkEndogenous61Rabbit IgG#Q063303516

Product Usage Information

For optimal ChIP results, use 10 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP[®] Enzymatic Chromatin IP Kits.

ApplicationDilutionWestern Blotting1:1000Immunohistochemistry (Paraffin)1:2600Chromatin IP1:50

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

RBPSUH (D10A4) XP® 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 (Recombining Binding Protein, SUppressor of Hairless), 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. Borggrefe, 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® 20 at 4°C with gentle shaking, overnight.

Applications Key

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

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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