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#5442

RBPSUH Antibody

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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 61	Source/Isotype: Rabbit	UniProt ID: #Q06330	Entrez-Gene Id: 3516
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

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

RBPSUH Antibody detects endogenous level of total RBPSUH protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu111 of human RBPSUH protein. Antibodies are purified by protein A and peptide affinity chromatography.

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 BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

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

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