

#5442 Store at -20C

RBPSUH Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	61	Rabbit	#Q06330	3516

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 P rotein, 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	<ol style="list-style-type: none"> 1. Ehebauer, M. et al. (2006) <i>Sci STKE</i> 2006, cm7. 2. Borggreffe, T. and Oswald, F. (2009) <i>Cell Mol Life Sci</i> 66, 1631-46. 3. Kopan, R. and Ilgan, M.X. (2009) <i>Cell</i> 137, 216-33. 4. Henkel, T. et al. (1994) <i>Science</i> 265, 92-5. 5. Strobl, L.J. et al. (1997) <i>Immunobiology</i> 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	WB: Western Blotting
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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