

Recombinant Mouse Rbpj Protein, Myc/DDK-tagged

Cat. No. Rbpj-5429M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length recombination signal binding protein for immunoglobulin kappa J region (Rbpj), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Transcriptional regulator that plays a central role in Notch signaling, a signaling pathway involved in cell-cell communication that regulates a broad spectrum of cell-fate determinations. Acts as a transcriptional repressor when it is not associated with Notch proteins. When associated with some NICD product of Notch proteins (Notch intracellular domain), it acts as a transcriptional activator that activates transcription of Notch target genes. Probably represses or activates transcription via the recruitment of chromatin remodeling complexes containing histone deacetylase or histone acetylase proteins, respectively. Specifically binds to the immunoglobulin kappa-type J segment recombination signal sequence. Binds specifically to methylated DNA. Binds to the oxygen responsive element of COX4I2 and activates its transcription under hypoxia conditions (4% oxygen). Negatively regulates the phagocyte oxidative burst in response to bacterial infection by repressing transcription of NADPH oxidase subunits.
Molecular Mass	54.3 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Rbpj recombination signal binding protein for immunoglobulin kappa J region [Mus musculus (house mouse)]
Official Symbol	Rbpj
Synonyms	RBPJ; recombination signal binding protein for immunoglobulin kappa J region; recombining binding protein suppressor of hairless; RBP-J kappa; j kappa-recombination signal-binding protein; CBF1; RBP-J; RBPjk; Igkjrj; Rbpsuh; Igkrspb; AI843960
Gene ID	19664
mRNA Refseq	NM_001080927
Protein Refseq	NP_001074396
UniProt ID	P31266

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