

## Recombinant Mouse Rbpj Protein, Myc/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>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.</p>
<b>Molecular Mass</b>	54.3 kDa

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

## GENE INFORMATION

<b>Gene Name</b>	Rbpj recombination signal binding protein for immunoglobulin kappa J region [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Rbpj
<b>Synonyms</b>	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; Igkrsbp; AI843960
<b>Gene ID</b>	19664
<b>mRNA Refseq</b>	NM_001080927
<b>Protein Refseq</b>	NP_001074396
<b>UniProt ID</b>	P31266

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