

RPCB0950

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**Product Information**

<b>Product SKU:</b>	RPCB0950	<b>Gene ID:</b>	641338	<b>Size:</b>	10µg
<b>Tag:</b>	C-hFc&Avi	<b>Reactivity:</b>	Cynomolgus		

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**Additional Information**

<b>Expression Host:</b>	HEK293 cells	<b>Swissprot:</b>	Q38JL2
<b>Purity:</b>	-		

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**Protein Information**

**Background:** The common gamma chain ( $\gamma$ c) (or CD132), also known as interleukin-2 receptor subunit gamma or IL2RG, is a member of the type I cytokine receptor family expressed on most lymphocyte (white blood cell) populations, and its gene is found on the X-chromosome of mammals. The common gamma chain ( $\gamma$ c) (or IL2RG), is a cytokine receptor subunit that is common to the receptor complexes for at least six different interleukin receptors: IL-2, IL-4, IL-7, IL-9, IL-15, and the interleukin-21 receptor. It is a component of multiple cytokine receptors that are essential for lymphocyte development and function. X-linked severe combined immunodeficiency (X-SCID) is a rare and potentially fatal disease caused by mutations of IL2RG, the gene encoding IL2RG. IL2RG was demonstrated to be a component of the IL-4 receptor based on chemical cross-linking data, the ability of IL2RG to augment IL-4 binding affinity. The observation that IL-2R gamma is a functional component of the IL-4 receptor, together with the finding that IL-2R gamma associates with the IL-7 receptor, begins to elucidate why a deficiency of this common gamma chain (gamma c) has a profound effect on lymphoid function and development, as seen in X-linked severe combined immunodeficiency.

**Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Cynomolgus IL-2RG/CD132 Protein, tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.

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- Endotoxin:** < 0.1 EU/μg of the protein by LAL method.
- Formulation:** Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
- Storage:** Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.