

RPES8487

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**Product Information**

<b>Product SKU:</b>	RPES8487	<b>Expression Host:</b>	Mammalian	<b>Size:</b>	20µg
<b>Tag:</b>	C-Fc	<b>Reactivity:</b>	Mouse	<b>Accession:</b>	P05532

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**Additional Information**

<b>Calculated MW:</b>	80.2 kDa	<b>Observed MW:</b>	90 kDa
<b>Sequence:</b>	Ser25-Pro527		

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**Protein Information**

**Background:** C-Kit is a type 3 transmembrane receptor for MGF (mast cell growth factor , also known as stem cell factor). c-Kit contains 5 Ig-like C2-type (immunoglobulin-like) domains and 1 protein kinase domain. It belongs to the protein kinase superfamily , tyr protein kinase family , and CSF-1/PDGF receptor subfamily. C-Kit has tyrosine-protein kinase activity. Binding of the ligands leads to the autophosphorylation of KIT and its association with substrates such as phosphatidylinositol 3-kinase. Antibodies to c-Kit are widely used in immunohistochemistry to help distinguish particular types of tumor in histological tissue sections. It is used primarily in the diagnosis of GISTs. In GISTs , c-Kit staining is typically cytoplasmic , with stronger accentuation along the cell membranes. C-Kit antibodies can also be used in the diagnosis of mast cell tumors and in distinguishing seminomas from embryonal carcinomas. Mutations in the c-Kit gene are associated with gastrointestinal stromal tumors , mast cell disease , acute myelogenous leukemia , and piebaldism. Defects in KIT are a cause of acute myelogenous leukemia (AML). AML is a malignant disease in which hematopoietic precursors are arrested in an early stage of development. Note= Somatic mutations that lead to constitutive activation of KIT are detected in AML patients.

**Synonyms:** SOW, Gsfow, SCO, W, Bs, Fdc, Ssm, SCO1, SCO5, SOW3, CD117, c-KIT, Tr-kit, Gsfco1, Gsfco5, Gsfow3, Mast/stem cell growth factor receptor Kit, Proto-oncogene c-Kit, SCFR, Tyrosine-protein kinase Kit, Sl, Kit, SCFR, CD117, c-KIT, Fdc, Gsfco1, Gsfco5,

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Gsfow3, SCO1, SCO5, SOW3, Ssm, Tr-kit, KIT proto-oncogene receptor tyrosine kinase, PBT

**Endotoxin:** < 1.0 EU/mg of the protein as determined by the LAL method

**Formulation:** Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

**Purity:** > 90% as determined by reducing SDS-PAGE.

**Bio-Activity:** Not validated for activity

**Storage:** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.