

RPES8525

Product Information

Product SKU:	RPES8525	Expression Host:	Mammalian	Size:	20µg
Tag:	C-His	Reactivity:	Rat	Accession:	Q498D6

Additional Information

Calculated MW:	38.5 kDa	Observed MW:	60-80 kDa
Sequence:	Phe17-Asp367		

Protein Information

Background: Fibroblast growth factor receptor 4 (FGFR4) also known as CD334 antigen or tyrosine kinase related to fibroblast growth factor receptor, is a member of the fibroblast growth factor receptor family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of FGFR4/CD334 interacts with an fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. FGFR4/CD334 preferentially binds acidic fibroblast growth factor and, although its specific function is unknown, it is overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis. FGFR4/CD334 signaling is down-regulated by receptor internalization and degradation, MMP14 promotes internalization and degradation of FGFR4/CD334. Mutations in FGFR4/CD334 lead to constitutive kinase activation or impair normal FGFR4 inactivation lead to aberrant signaling.

Synonyms: CD 334, CD334, CD334 antigen, fc13h 10, fc13h10, Fgfr 4, FGFR-4, Fgfr4, FGFR4, Fibroblast growth factor receptor 4, Hydroxyaryl protein kinase, JTK 2, JTK2,

MGC20292, Protein tyrosine kinase, TKF, Tyrosine kinase related to fibroblast growth factor receptor, Tyrosylprotein kinase

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.