abcam

Product datasheet

Recombinant human Flt4 protein ab126923

2 Images

Description

Product name	Recombinant human Flt4 protein
Biological activity	The specific activity of ab126923 was determined to be 68nmol/min/mg as per activity assay protocol.
Purity	> 80 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	P35916
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	85 kDa
Amino acids	800 to 1363

Specifications

Our **Abpromise guarantee** covers the use of **ab126923** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot Functional Studies SDS-PAGE
Form	Liquid
Additional notes	**ab204877** (Poly (4:1 Glu, Tyr) peptide) can be utilized as a substrate for assessing kinase activity

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

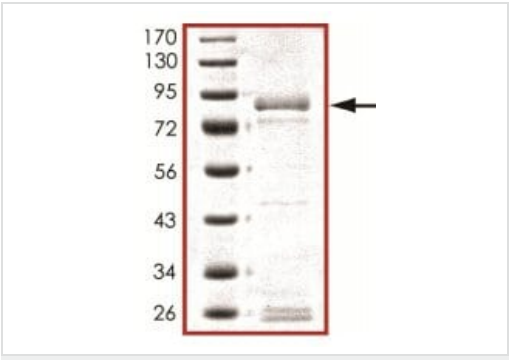
Relevance

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The tyrosine kinase (TK) group is mainly involved in the regulation of cell to cell interactions such as differentiation, adhesion, motility and death. There are currently about 90 TK genes sequenced, 58 are of receptor protein TK (e.g. EGFR, EPH, FGFR, PDGFR, TRK, and VEGFR families), and 32 of cytosolic TK (e.g. ABL, FAK, JAK, and SRC families). Three cell membrane receptor tyrosine kinases, Flt (also designated VEGFR1), Flk1 (also designated VEGFR2) and Flt4 (also designated VEGFR3), putatively involved in the growth of endothelial cells, are characterized by the presence of seven immunoglobulin like sequences in their extracellular domain. On the basis of structural similarity to Flt and Flk1, it has been speculated that Flt4 might represent a third receptor for eother VEGF or a VEGF related ligand.

Cellular localization

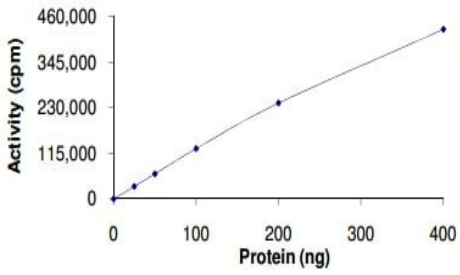
Type I membrane protein.

Images



SDS-PAGE - Recombinant human Flt4 protein (ab126923)

SDS-PAGE analysis of ab126923.



Functional Studies - Recombinant human Flt4 protein (ab126923)

The specific activity of ab126923 was determined to be 68nmol/min/mg as per activity assay protocol.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors