

Product datasheet

Recombinant human JAK3 protein ab89756

画像数 2

製品の概要

製品名	Recombinant human JAK3 protein
タンパク質長	Protein fragment

法規制情報

カルタヘナ法

製品の詳細

由来	Recombinant
由来	Baculovirus infected Sf9 cells
アミノ酸配列	
生物種	Human
領域	781 to 1124

特性

Our [Abpromise guarantee](#) covers the use of **ab89756** in the following tested applications.

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

生理活性 The Specific activity of ab89756 was determined to be 91 nmol/min/mg.

アプリケーション SDS-PAGE
Western blot
Functional Studies

製品の状態 Liquid

備考 [ab204877](#) (Poly (4:1 Glu, Tyr) peptide) can be utilized as a substrate for assessing kinase activity

前処理および保存

保存方法および安定性

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

Preservative: None

Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5

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

関連情報

機能

Tyrosine kinase of the non-receptor type, involved in the interleukin-2 and interleukin-4 signaling pathway. Phosphorylates STAT6, IRS1, IRS2 and PI3K.

組織特異性

In NK cells and an NK-like cell line but not in resting T-cells or in other tissues. The S-form is more commonly seen in hematopoietic lines, whereas the B-form is detected in cells both of hematopoietic and epithelial origins.

関連疾患

Defects in JAK3 are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-negative (T(-)B(+)NK(-) SCID) [MIM:600802]. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients present in infancy recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development.

配列類似性

Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily.

Contains 1 FERM domain.

Contains 1 protein kinase domain.

Contains 1 SH2 domain.

ドメイン

Possesses two phosphotransferase domains. The second one probably contains the catalytic domain (By similarity), while the presence of slight differences suggest a different role for domain 1.

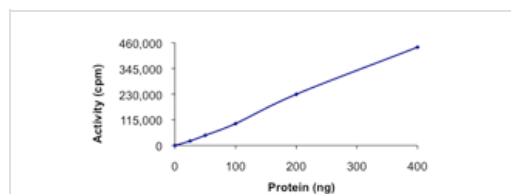
翻訳後修飾

Tyrosine phosphorylated in response to IL-2 and IL-4.

細胞内局在

Endomembrane system. Wholly intracellular, possibly membrane associated.

画像



Kinase Assay demonstrating specific activity of ab89756.

Functional Studies - JAK3 protein (Active) (ab89756)



SDS-PAGE showing ab89756 at approximately 64kDa.

SDS-PAGE - JAK3 protein (Active) (ab89756)

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