

## Product datasheet

# Recombinant human JAK3 protein ab89982

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
アミノ酸配列	
生物種	Human
領域	781 to 1124

### 特性

Our [Abpromise guarantee](#) covers the use of **ab89982** 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	Specific Activity: 118 pmol/min/μg. Assay conditions: 50 mM HEPES (pH7.5), 10 mM MgCl <sub>2</sub> , 1 mM EGTA, 200 μM ATP, 0.01% Brij-35, and 2 μM substrate at room temperature for 1 hour.
アプリケーション	Functional Studies SDS-PAGE
製品の状態	Liquid

### 前処理および保存

保存方法および安定性	Shipped on Dry Ice. Store at -80°C. Preservative: None Constituents: 20% Glycerol, 0.05% Tween 20, 25mM Tris HCl, 100mM Sodium chloride, 1mM
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DTT, pH 8.0

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

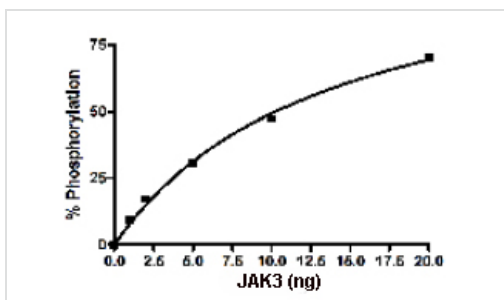
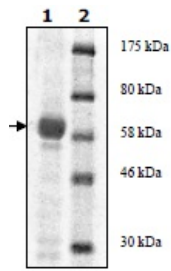


Image showing specific activity of ab89982.

Functional Studies - JAK3 protein (Active) (ab89982)



10% SDS-PAGE showing ab89982 at approximately 65kDa (5µg).

SDS-PAGE - JAK3 protein (Active) (ab89982)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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