

# Recombinant Human STAT2 protein ab43617

1 Image

### Description

<b>Product name</b>	Recombinant Human STAT2 protein
<b>Purity</b>	> 90 % SDS-PAGE. The purity was determined to be >90% by densitometry. Affinity purified.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human

### Specifications

Our **Abpromise guarantee** covers the use of **ab43617** in the following tested applications.

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

<b>Applications</b>	Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	Recombinant full-length human STAT2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

### Preparation and Storage

<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.87% Sodium chloride, 25% Glycerol (glycerin, glycerine), 0.79% Tris HCl, 0.00385% DTT, 0.00174% PMSF
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### General Info

<b>Function</b>	Signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with ISGF3G/IRF-9 to form a complex termed ISGF3
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transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state.

#### Sequence similarities

Belongs to the transcription factor STAT family.  
Contains 1 SH2 domain.

#### Post-translational modifications

Tyrosine phosphorylated in response to IFN-alpha.

#### Cellular localization

Cytoplasm. Nucleus. Translocated into the nucleus upon activation by IFN-alpha/beta.

### Images



Western blot - Recombinant Human STAT2 protein  
(ab43617)

Demonstration of purity (>90% by densitometry) using western blot.

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

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