# abcam

# Product datasheet

# Recombinant Human STAT2 protein ab43617

### 1 Image

**Description** 

Product name Recombinant Human STAT2 protein

Purity > 90 % SDS-PAGE.

The purity was determined to be >90% by densitometry. Affinity purified.

**Expression system** Baculovirus infected Sf9 cells

Protein length Full length protein

Animal free No

**Nature** Recombinant

**Species** 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.

**Applications** Western blot

Form Liquid

Additional notes Recombinant full-length human STAT2 was expressed by baculovirus in Sf9 insect cells using an

N-terminal GST tag.

#### **Preparation and Storage**

Stability and Storage 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

#### **General Info**

**Function** 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.

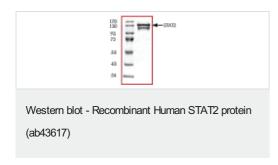
Contains 1 SH2 domain.

Post-translational modifications

Tyrosine phosphorylated in response to IFN-alpha.

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

#### **Images**



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

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