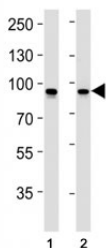


## STAT1 Antibody [clone 1141CT26.2.1] (F52347)

Catalog No.	Formulation	Size
F52347-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52347-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1
<b>Clone Name</b>	1141CT26.2.1
<b>Purity</b>	Purified
<b>UniProt</b>	P42224
<b>Applications</b>	Western Blot : 1:1000
<b>Limitations</b>	This STAT1 antibody is available for research use only.



STAT1 antibody western blot analysis in (1) CEM and (2) HeLa lysate. Predicted molecular weight: ~91/84kDa (alpha/beta).

### Description

Signal transducer and transcription activator that mediates cellular responses to interferons (IFNs), cytokine KITLG/SCF and other cytokines and growth factors. Following type I IFN (IFN-alpha and IFN-beta) binding to cell surface receptors, signaling via protein kinases leads to activation of Jak kinases (TYK2 and JAK1) and to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with ISGF3G/IRF-9 to form a complex termed ISGF3 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. In response to type II IFN (IFN-gamma), STAT1 is tyrosine- and serine-phosphorylated. It then forms a homodimer termed IFN-gamma-activated factor (GAF), migrates into the nucleus and binds to the IFN gamma activated sequence (GAS) to drive the expression of the target genes, inducing a cellular antiviral state. Becomes activated in response to KITLG/SCF and KIT signaling. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4.

## **Application Notes**

Titration of the STAT1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## **Immunogen**

Purified His-tagged protein was used to produce this monoclonal STAT1 antibody.

## **Storage**

Aliquot the STAT1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.