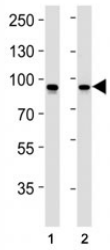
STAT1 Antibody [clone 1141CT26.2.1] (F52347)

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

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	1141CT26.2.1
Purity	Purified
UniProt	P42224
Applications	Western Blot : 1:1000
Limitations	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 produced this monoclonal STAT1 antibody.

Storage

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