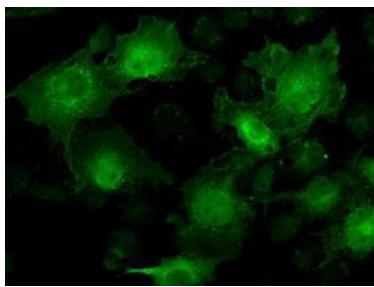




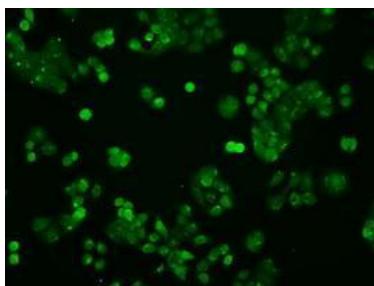
Date : 2016/4/12

Catalog Number	GTX83552	Package:100 µl
Product Name	STAT1 antibody [4H9]	
Full Name	signal transducer and activator of transcription 1, 91kDa	
Synonyms	STAT91, ISGF-3, DKFZp686B04100, STAT1, ISGF3, ISGF 3	
Product Description	Mouse monoclonal antibody [4H9] to STAT1	
Specificity	GTX83552 is specific for human STAT1.	
Background	Signal transducer and activator of transcription that mediates signaling by interferons (IFNs). Following type I IFN (IFN-alpha and IFN-beta) 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 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.	
Host	Mouse	
Clonality	Monoclonal	
Clone Name	4H9	
Isotype	IgG1	
Target	STAT1	
Immunogen	Protein expressed in 293T cell transfected with human STAT1 expression vector	
Antigen Species	Human	
Species Reactivity	Human, Dog, Monkey	
Applications	ICC/IF, IHC, IHC-P, WB	
Application Note	<b>Recommended Starting Dilutions:</b>  WB 1:2000 IHC 1:50 ICC/IF 1:100	
	Optimal working dilutions should be determined experimentally by the end user.	
Cellular Localization	Translocated into the nucleus in response to IFN-gamma-induced tyrosine phosphorylation and dimerization.	
Form Supplied	Liquid	
Purification	Purified from mouse ascites fluids by Protein A/G affinity chromatography	
Storage Buffer	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.	
Storage Instruction	For short-term storage, store at 4°C or aliquot into working amounts and store at -20°C. For long-term storage, store at -70°C ( aliquotted). Avoid repeated freeze-thaw cycles.	
Notes	For <i>In vitro</i> laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.	
ResearchArea	<a href="#">Cancer &gt; Type of cancer &gt; Brain &gt; Glioma</a> <a href="#">Cancer &gt; Type of cancer &gt; Breast &gt; Other</a> <a href="#">Cancer &gt; Type of cancer &gt; Lung &gt; Other</a>	



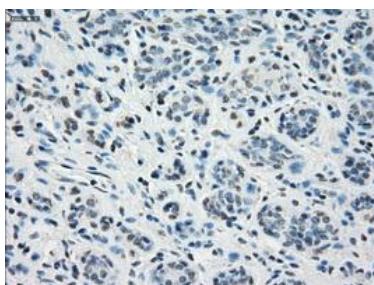
#### GTx83552 ICC/IF Image

Anti-STAT1 mouse monoclonal antibody (GTx83552) immunofluorescent staining of COS7 cells transiently transfected with STAT1



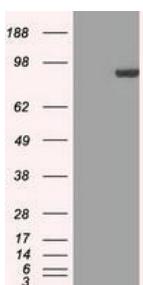
#### GTx83552 ICC/IF Image

Immunofluorescent staining of HT29 cells using anti-STAT1 mouse monoclonal antibody (GTx83552).



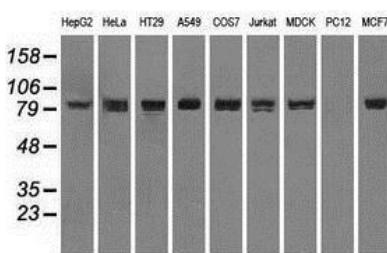
#### GTx83552 IHC-P Image

Immunohistochemical staining of paraffin-embedded breast tissue using anti-STAT1 mouse monoclonal antibody. (GTx83552, Dilution 1:50)



#### GTx83552 WB Image

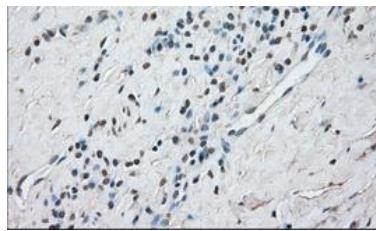
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY STAT1 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunobotted with anti-STAT1 .



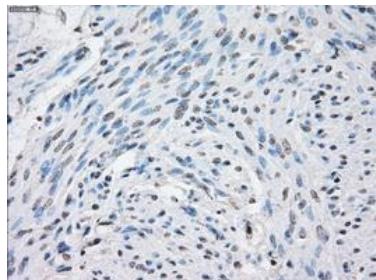
#### GTx83552 WB Image

Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-STAT1 monoclonal antibody.

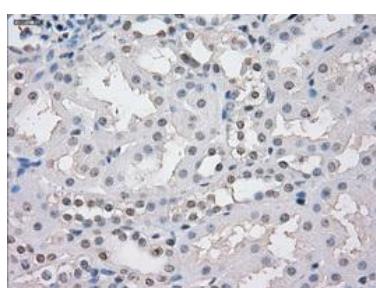


**GTx83552 IHC-P Image**

Immunohistochemical staining of paraffin-embedded Carcinoma of thyroid tissue using anti-STAT1 mouse monoclonal antibody. (GTx83552, Dilution 1:50)

**GTx83552 IHC-P Image**

Immunohistochemical staining of paraffin-embedded endometrium tissue using anti-STAT1 mouse monoclonal antibody. (GTx83552, Dilution 1:50)

**GTx83552 IHC-P Image**

Immunohistochemical staining of paraffin-embedded Kidney tissue using anti-STAT1 mouse monoclonal antibody. (GTx83552, Dilution 1:50)