Product Datasheet

Stat-1 alpha/beta Antibody

Catalog No: #48574

Package Size: #48574-1 50ul #48574-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

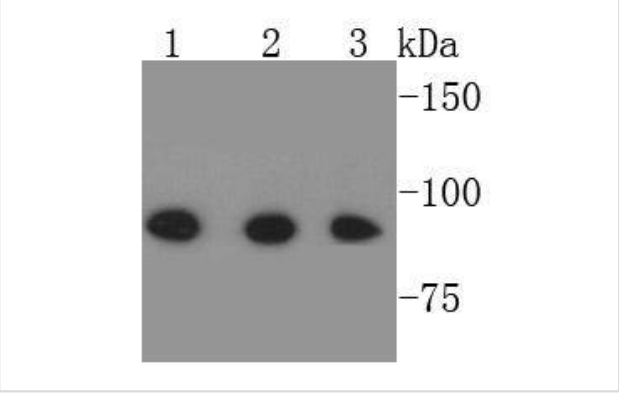
Description

Product Name	Stat-1 alpha/beta Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Hu, Ms
Immunogen Description	peptide
Other Names	CANDF7 antibody DKFZp686B04100 antibody ISGF 3 antibody ISGF3 antibody OTTHUMP00000163552 antibody OTTHUMP00000165046 antibody OTTHUMP00000165047 antibody OTTHUMP00000205845 antibody Signal transducer and activator of transcription 1 antibody Signal transducer and activator of transcription 1, 91kDa antibody Signal transducer and activator of transcription 1-alpha/beta antibody Stat1 antibody STAT1_HUMAN antibody STAT91 antibody Transcription factor ISGF-3 components p91/p84 antibody
Accession No.	Swiss-Prot#:P42224
Uniprot	P42224
GeneID	6772;
Calculated MW	87 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

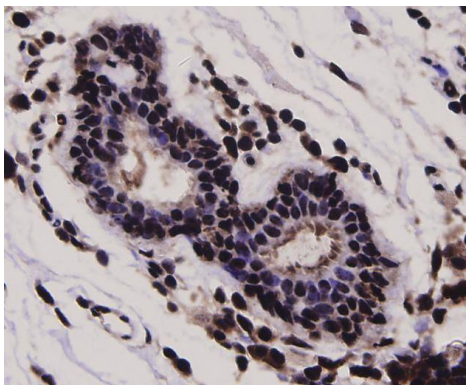
Application Details

WB: 1:1,000IHC: 1:200, ICC: 1:200 FC: 1:100-1:200

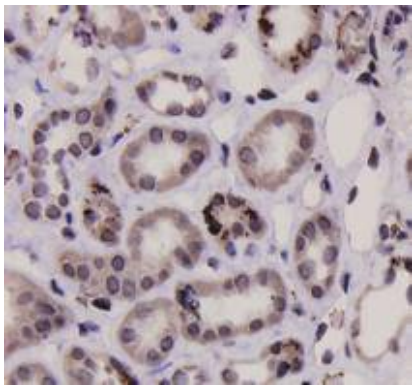
Images



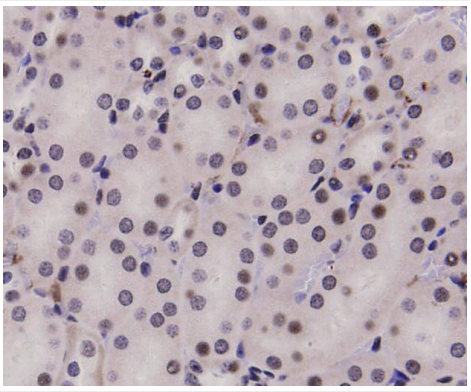
Western blot analysis of Stat-1α/β on different cell lysates using anti-Stat-1α/β antibody at 1/500 dilution. Positive control: Lane 1: Hela Lane 2: NIH/3T3 Lane 3: MCF-7



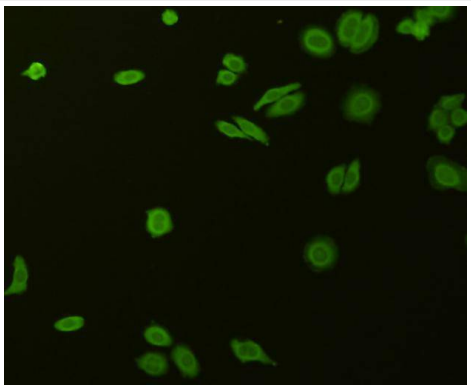
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue using anti-Stat-1α/β antibody. Counter stained with hematoxylin.



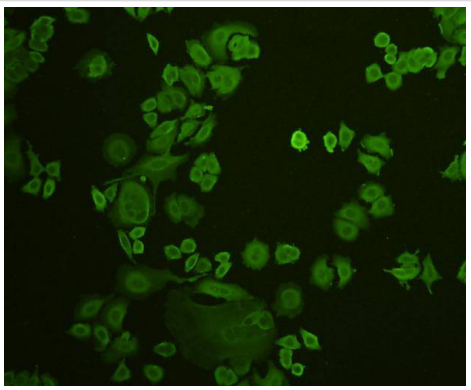
Immunohistochemical analysis of paraffin-embedded mouse skeletal human kidney tissue using anti-Stat-1oΩ½oΩ½/oΩ½oΩ½ antibody. Counter stained with hematoxylin.



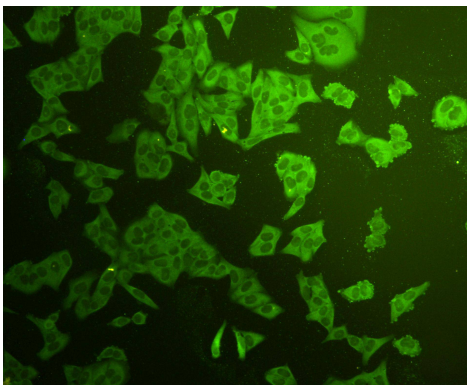
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Stat-1oΩ½oΩ½/oΩ½oΩ½ antibody. Counter stained with hematoxylin.



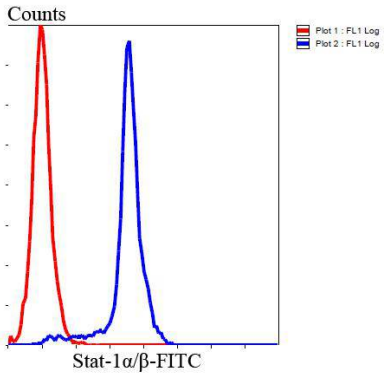
ICC staining Stat-1α/β in HepG2 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Stat-1α/β in MCF-7 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Stat-1ơΩ½oΩ½/oΩ½oΩ½ in Hela cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with Stat-1α/β antibody at 1/100 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Goat anti rabbit IgG (FITC) was used as the secondary antibody.

Background

STAT1 is a member of the Signal Transducers and Activators of Transcription family of transcription factors. STAT1 is involved in upregulating genes due to a signal by either type I, type II, or type III interferons. In response to IFN-γ stimulation, STAT1 forms homodimers or heterodimers with STAT3 that bind to the GAS (Interferon-Gamma-Activated Sequence) promoter element; in response to either IFN-α or IFN-β stimulation, STAT1 forms a heterodimer with STAT2 that can bind the ISRE (Interferon-Stimulated Response Element) promoter element. The phosphorylated STATs dimerize and 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 IFN-stimulated genes (ISG), which drive the cell in an antiviral state. In response to type II IFN (IFN-gamma), STAT1 is tyrosine- and serine-phosphorylated.

References

Note: This product is for in vitro research use only