

KD-Validated Anti-STAT1 Recombinant Rabbit Monoclonal Antibody



Catalog #: 61710

Aliases

STAT1; Signal Transducer And Activator Of Transcription 1; Transcription Factor ISGF-3 Components P91/P84; STAT91; ISGF-3; Signal Transducer And Activator Of Transcription 1-Alpha/Beta; Signal Transducer And Activator Of Transcription 1, 91kDa; Signal Transducer And Activator Of Transcription 1, 91kD; CANDF7; IMD31A; IMD31B; IMD31C

Background

Gene Name: STAT1

NCBI Gene Entry: [6772](#)

UniProt Entry: [P42224](#)

Application Information

Molecular Weight: Predicted, 87 kDa, observed, 84 kDa

Clonality: Rabbit monoclonal antibody

Clone ID: 23GB4185

Species Reactivity: Human, mouse, rat

Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC), immunohistochemistry (IHC)

Immunogen

A synthesized peptide derived from human STAT1

Isotype

Rabbit IgG

Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.

Storage

Store at -20 °C for one year.

Recommended Dilutions

Western Blotting (WB): 1:1,000-1:5,000

Flow Cytometry (FCM): 1:2,000

Immunocytochemistry (IC): 1:100-1:1,000

Immunohistochemistry (IHC): 1:100-1:200

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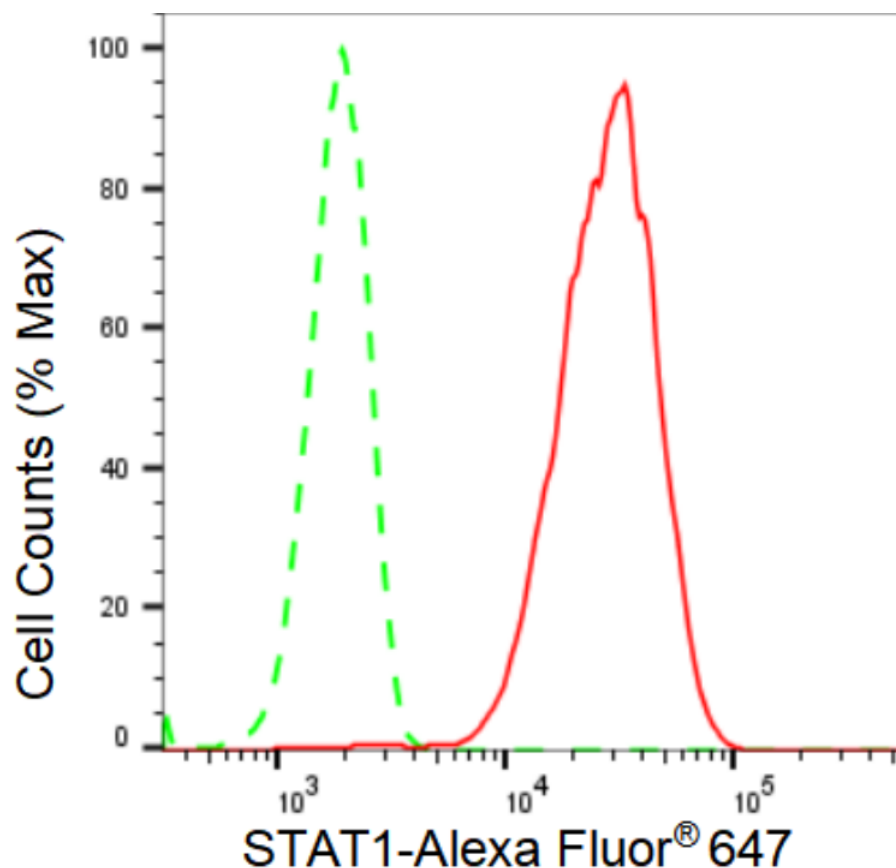
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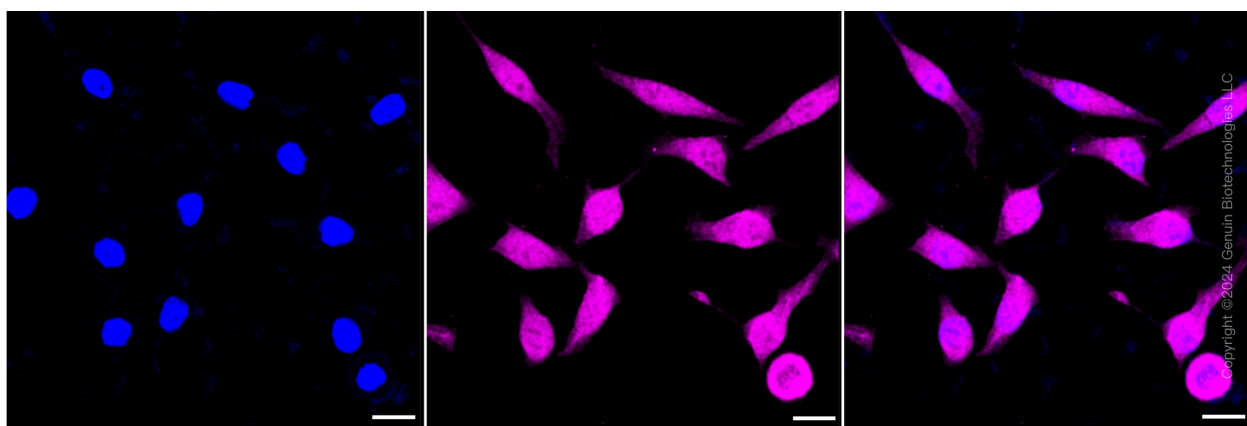
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Validation Data



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Flow cytometric analysis of STAT1 expression in HeLa cells using STAT1 antibody (Cat#61710, 1:2,000). Green, isotype control; red, STAT1.



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Immunocytochemical staining of HeLa cells with STAT1 antibody (Cat#61710, 1:1,000). Nuclei were stained blue with DAPI; STAT1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium.

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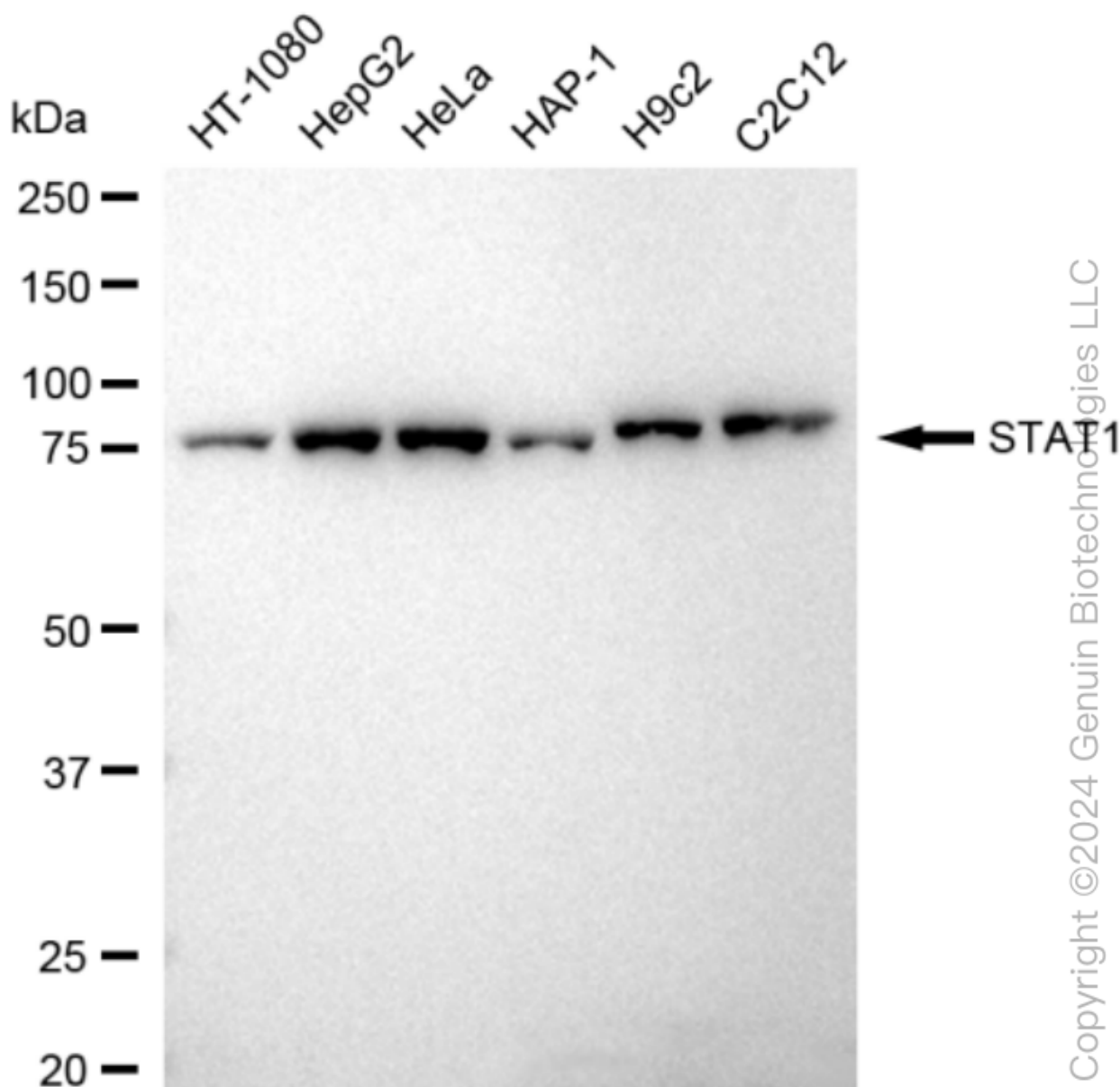
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Scale bar: 20 μ m.



Western blotting analysis using anti-STAT1 antibody (Cat#61710). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-STAT1 antibody (Cat#61710, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).

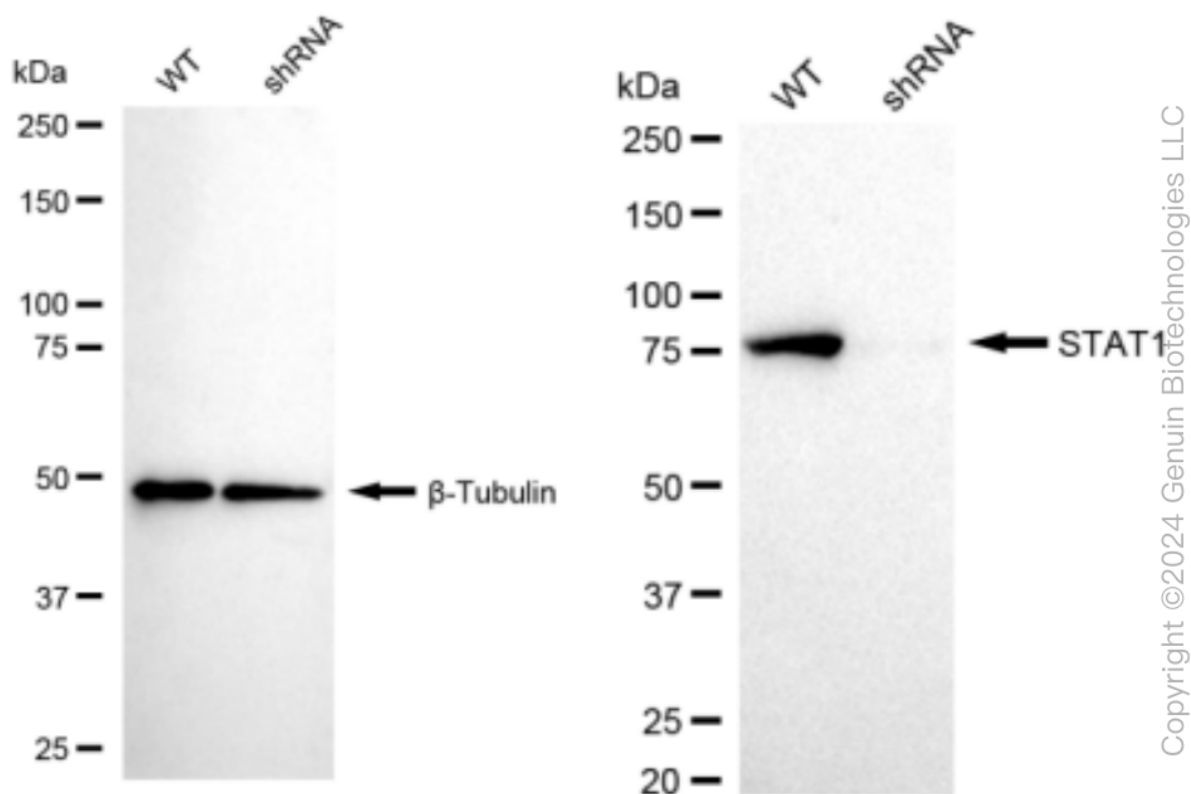
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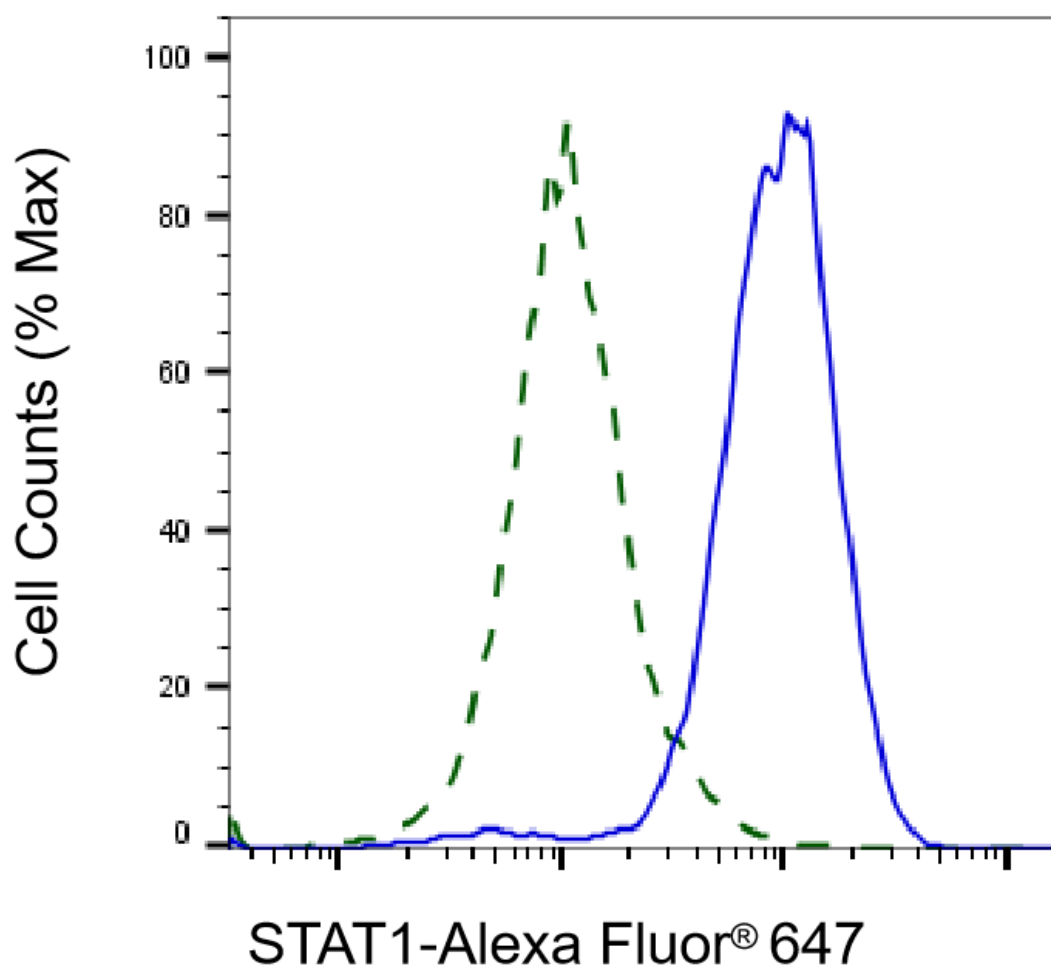
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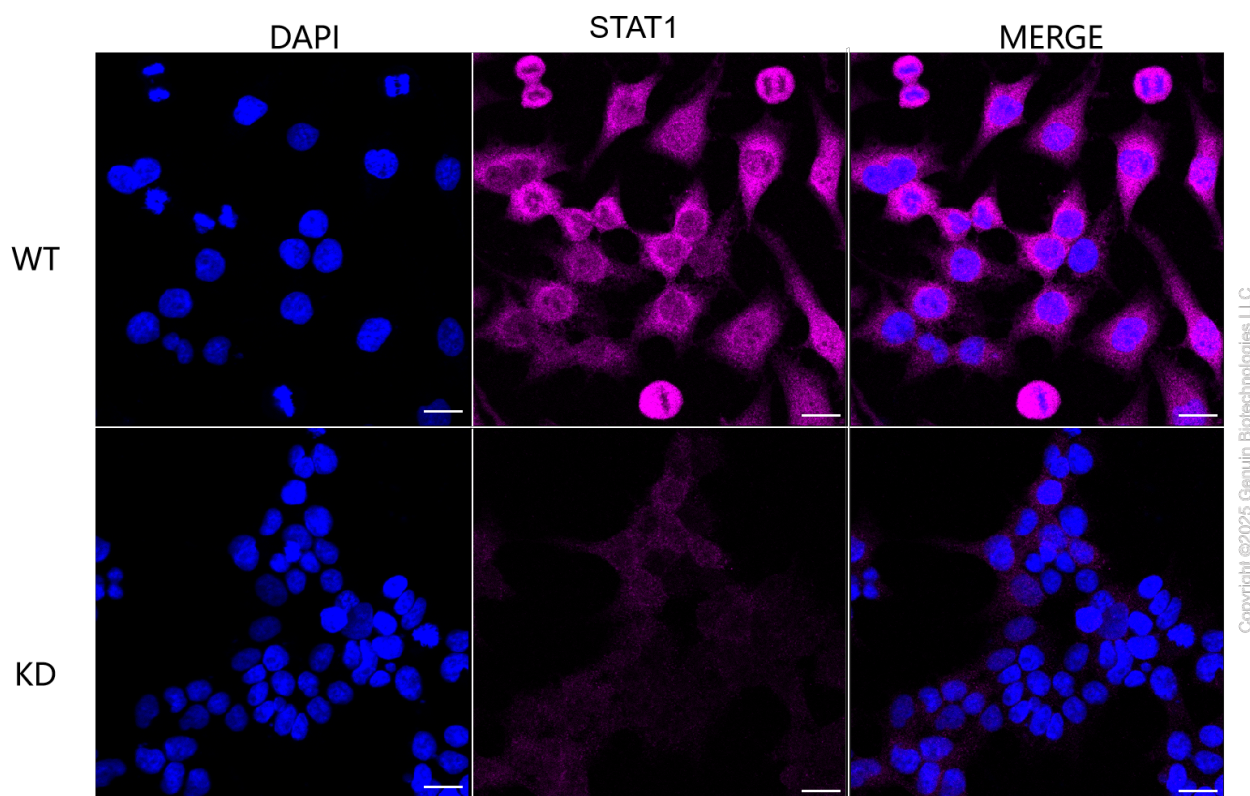


Western blotting analysis using anti-STAT1 antibody (Cat#61710). STAT1 expression in wild type (WT) and STAT1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-STAT1 antibody (Cat#61710, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).

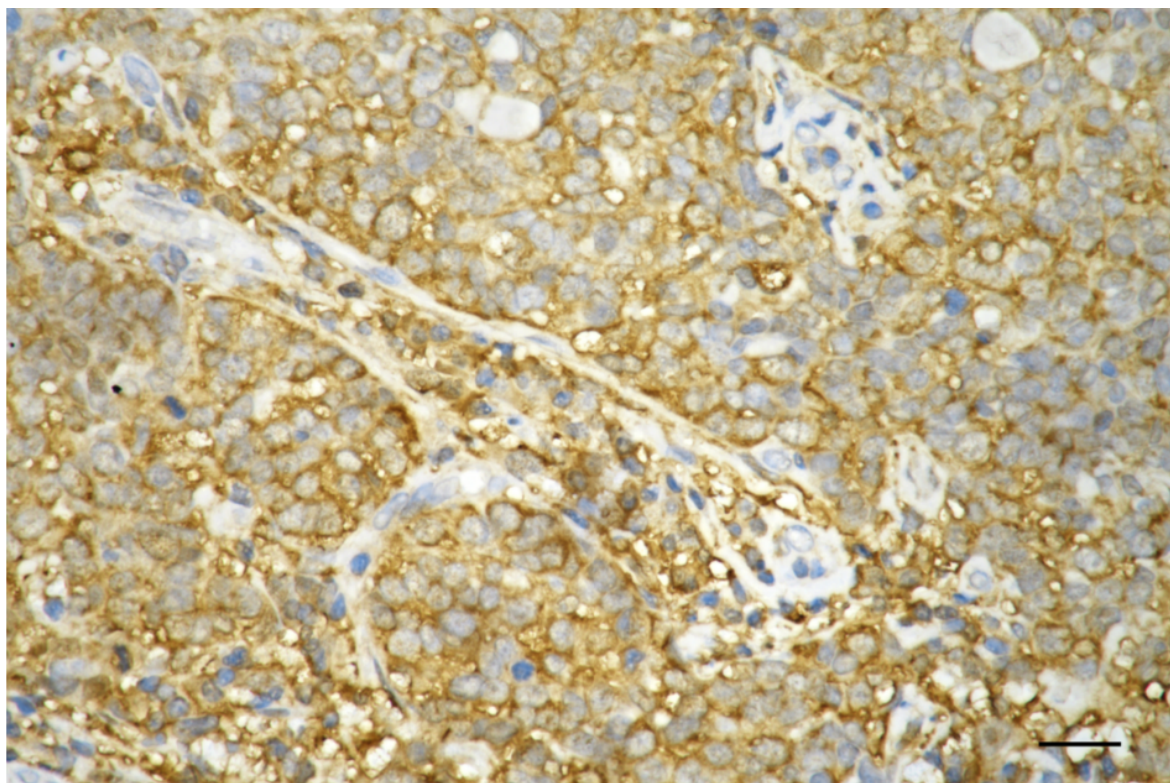


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Validation of STAT1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with anti-STAT1 antibody (Cat#61710, 1:2,000) and analyzed using BD flow cytometer.



Immunocytochemical staining of HeLa cells using anti-STAT1 antibody (Cat#61710, 1:1,000), Top panel: wild-type (WT); Bottom panel: STAT1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; STAT1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 μ m. Permeabilization: Triton.



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Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using anti-STAT1 antibody (Cat#61710, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μ m.