

Alexa Fluor[®] 594 anti-STAT1 Phospho (Ser727) Antibody

Catalog# / Size	686405 / 25 µg
Clone	A15158B
Regulatory Status	RUO
Other Names	Signal transducer and activator of transcription 1 (STAT1), Transcription factor ISGF-3 components p91/p84
Isotype	Mouse IgG1, κ
Description	STAT1, also known as signal transduction and activator of transcription 1, is a ubiquitously expressed cytoplasmic protein and is activated in response to cytokine signaling, including IFN-α, IFN-γ, EGF, PDGF, and IL-6. Upon activation, STAT1 is phosphorylated by receptor-associated kinases, translocates to the nucleus, and functions as a transcription factor. Two isoforms of STAT1, with apparent molecular weights of 88 and 91 kD, exist as a result of alternative RNA processing. STAT1 is involved in IFN-mediated immune responses, and STAT1-deficient mice are highly sensitive to bacterial and viral infections.

Product Details

Verified Reactivity	Human, Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human STAT1 peptide phosphorylated at Ser 727.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor [®] 594 under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunocytochemistry. For immunocytochemistry, a concentration range of 0.25 - 1.0 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor [®] 594 has an excitation maximum of 590 nm, and a maximum emission of 617 nm. Alexa Fluor [®] and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
RRID	AB_2617021 (BioLegend Cat. No. 686405)

Antigen Details

Structure	750 amino acids, predicted molecular weight of 87 kD; contains a SH2 domain responsible for homodimerization or heterodimerization.
Distribution	Translocates to the nucleus when phosphorylated.
Function	Phosphorylated in response to cytokine signaling by receptor-associated kinases; translocates to the nucleus to act as a transcription factor. Mediates responses to type I (IFN-α/β) and II interferon (IFN-γ), EGF, PDGF, and IL-6.

Interaction	Forms a homodimer or heterodimers with other family members. Interacts with FAK, MCM3, MCM5, TRADD, BRCA1, KIT, IL-27R, IL-2R β , IL-2R γ , IFN α β R, and c-Src.
Biology Area	Cell Biology, Signal Transduction
Molecular Family	Phospho-Proteins, Nuclear Markers
Antigen References	<ol style="list-style-type: none"> 1. Durbin JE, <i>et al.</i> 1996. <i>Cell</i>. 84:443. 2. Darnell JE Jr, <i>et al.</i> 1994. <i>Science</i> 264:1415. 3. Chen X, <i>et al.</i> 1998. <i>Cell</i>. 93:827. 4. Ramana CV, <i>et al.</i> 2000. <i>Oncogene</i>. 19:2619.
Gene ID	6772

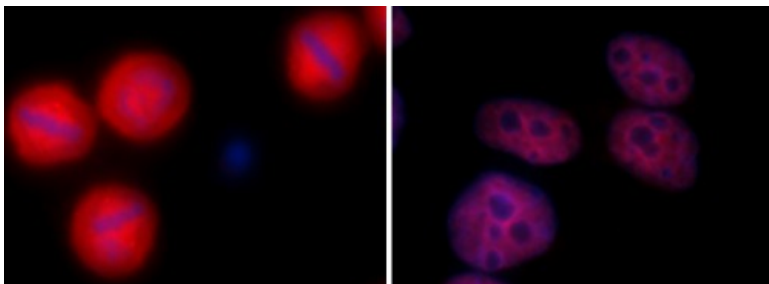
Related Protocols

[Immunocytochemistry Staining Protocol](#)

Other Formats

Purified anti-STAT1 Phospho (Ser727), PE anti-STAT1 Phospho (Ser727), Alexa Fluor® 594 anti-STAT1 Phospho (Ser727), Alexa Fluor® 647 anti-STAT1 Phospho (Ser727), Alexa Fluor® 488 anti-STAT1 Phospho (Ser727), PE/Cyanine7 anti-STAT1 Phospho (Ser727), Go-ChIP-Grade™ Purified anti-STAT1 Phospho (Ser727), PerCP/Cyanine5.5 anti-STAT1 Phospho (Ser727)

Product Data



Two aliquots of HeLa cells in suspension, treated with 200 ng/mL nocodazole for 24 hours (left) or left untreated (right) were adhered on poly-llysine pre-coated slides. Then they were fixed with 4% paraformaldehyde (PFA) for 15 minutes, permeabilized with 0.5% Triton X-100 for three minutes, and blocked with 5% FBS for 60 minutes. The cells were intracellularly stained with 0.5 μ g/ml Alexa Fluor® 594 anti-STAT1 Phospho (Ser727) antibody (clone A15158B) overnight at 4°C. Nuclei were counterstained with DAPI (blue). The image was captured with a 60X objective.

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