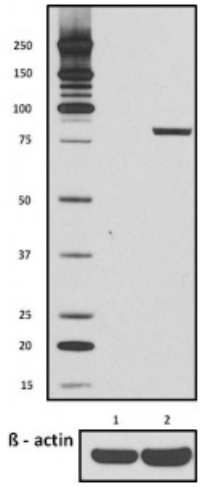
SONY

Product Data Sheet

Purified anti-STAT1 Phospho (Ser727)

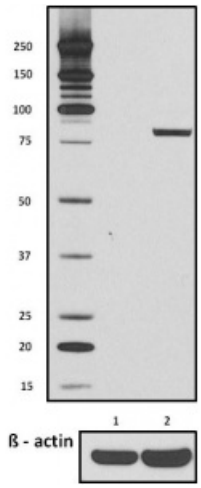
Catalog # / Size:	4032005 / 25 µg 4032010 / 100 µg
Clone:	A15158B
Isotype:	Mouse IgG1, κ
Immunogen:	Human STAT1 peptide phosphorylated at Ser 727.
Reactivity:	Human, Mouse
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	IV A053
Concentration:	0.5 mg/ml



Total lysates (15 µg protein) from untreated HeLa cells (lane 1) and HeLa cells treated with nocodazole (lane 2) were resolved by electrophoresis (4-12% Bis-Tris gel), transferred to nitrocellulose, and probed with 1:500 diluted (1 µg/mL) Purified anti-STAT1 Phospho (Ser727) Antibody, clone A15158B (upper) or 1:3000 diluted Purified anti-β-actin Antibody, clone Poly6221 (lower). Proteins were visualized by chemiluminescence detection using a 1:3000 diluted goat anti-mouse-IgG secondary antibody conjugated to HRP for the anti-STAT1 Phospho (Ser727) Antibody, and a donkey anti-rabbit IgG Antibody conjugated to HRP for anti-β-actin Antibody.

Applications:

Applications:	Immunofluorescence, Other, Intracellular Staining for Flow Cytometry



HeLa cells were stimulated with (filled histogram) or without (open histogram) nocodozole for 24 hours, fixed with Fixation Buffer, permeabilized with True-Phos™ Perm Buffer, then intracellularly stained with

Recommended Usage:	Each lot of this antibody is quality control tested by Western blotting. For Western blotting, the suggested use of this reagent is 0.5 - 2.5 µg/ml. For intracellular flow cytometry using our True-Phos™ Perm Buffer in Cell Suspensions Protocol, the suggested use of this reagent is ≤ 0.03 µg per million cells in 100 µl volume. For immunocytochemistry, a concentration range of 0.5 - 2.0 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.	purified anti-STAT1 Phospho (Ser727) antibody (clone A15158B), followed by anti-mouse IgG PE.
Application Notes:	When tested for western blot, this clone produced a band that showed a about 1-3 kD mass shift compared to a pan HDAC1 antibody. This observation is consistent with a previous study of the HDAC1 Phospho (Ser406) site. This clone recognizes zebrafish HDAC1 phosphorylated at Ser406[2].	
Application References:	1. Segre CV, *et al*, 2016. *mAbs.* 8: 37-42 2. Loponte S, *et al*, 2016. *Sci Rep*, 6: 30213.	

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.
Antigen References:	1. Durbin JE, *et al.* 1996. *Cell.* 84:443. 2. Darnell JE Jr, *et al.* 1994. *Science* 264:1415. 3. Chen X, *et al.* 1998. *Cell.* 93:827. 4. Ramana CV, *et al.* 2000. *Oncogene.* 19:2619.