

Alexa Fluor® 647 anti-Phosphoserine Antibody

Catalog# / Size	944103 / 25 tests 944104 / 100 tests
Clone	M380B
Regulatory Status	RUO
Isotype	Mouse IgG1
Description	Phosphorylation of specific serine residues is a post-translational modification event critical for regulating the activity of many proteins. Protein phosphorylation events can alter protein function through a variety of molecular mechanisms, ranging from conformational changes that can stimulate or inhibit protein function to facilitating protein-protein interactions with binding partners. Antibodies that can detect phosphoserine residues are valuable tools for identifying novel phospho-sites and characterizing changes in the post-translational state of a broad range of phosphorylated proteins.

Product Details

Verified Reactivity	Human, Mouse, Rat, All Species
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Synthetic peptide containing phosphorylated serine
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Red Laser (633 nm)
RRID	AB_3675201 (BioLegend Cat. No. 944103) AB_3675201 (BioLegend Cat. No. 944104)

Antigen Details

Function	Cell signaling
Biology Area	Cell Biology, Immunology, Signal Transduction

Molecular Family Phospho-Proteins, Protein Kinases/Phosphatase

Antigen References

1. Rogerson D. *et. al.* 2015. *Nat. Chem. Biol.* 11:496-503.
2. Steinfield J. *et. al.* 2014. *ACS Chem. Biol.* 9(5):1104-1112.

Gene ID NA

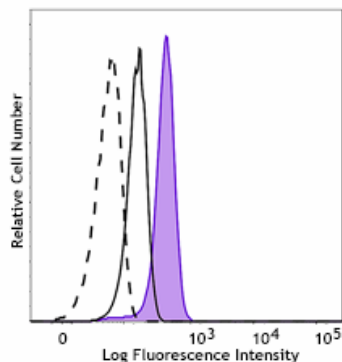
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-Phosphoserine, Alexa Fluor® 647 anti-Phosphoserine Antibody

Product Data



PBMC untreated (negative control, open histogram) or treated with cell activation cocktail (Cat No. 423301) (positive control, solid histogram) were fixed and permeabilized using True Phos™ Perm Buffer (Cat No. 425401) and then intracellularly stained with either Alexa Fluor® 647 anti-Phosphoserine (clone M380B) or Alexa Fluor® 647 Mouse IgG1, κ Isotype Control (Cat No. 400155) (open histogram, dashed line) (Representative for untreated and treated cells).

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