

## Alexa Fluor® 647 anti-Phosphothreonine Antibody

<b>Catalog# / Size</b>	943005 / 25 tests 943006 / 100 tests
<b>Clone</b>	M380A
<b>Regulatory Status</b>	RUO
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	Phosphorylation of specific threonine 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 phosphothreonine 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

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<b>Verified Reactivity</b>	Human, Mouse, Rat
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Synthetic peptide containing phosphorylated threonine
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">ICFC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">intracellular immunofluorescent staining with flow cytometric analysis</a> . 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.  <a href="#">View full statement regarding label licenses</a>
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	For use of this antibody (clone M380A) in intracellular staining for flow cytometry (ICFC), we recommend using True-Phos™ Perm buffer set (Cat. No. 425401) for fixation/permeabilization.
<b>RRID</b>	AB_3662344 (BioLegend Cat. No. 943005) AB_3662344 (BioLegend Cat. No. 943006)

### Antigen Details

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<b>Function</b>	Cell signaling
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Zhao <i>et. al.</i> 2016. <i>Sci. Reports.</i> 6:34817.</li> <li>2. De Verdier C. H. 1952. <i>Nature.</i> 170:804-805.</li> <li>3. Steinfield J. <i>et. al.</i> 2014. <i>ACS Chem. Biol.</i> 9(5):1104-1112.</li> <li>4. Mora N. <i>et. al.</i> 2009. <i>Int. Journ. of Peptide and Protein Research.</i> 45(1):53-63.</li> </ol>
<b>Gene ID</b>	NA

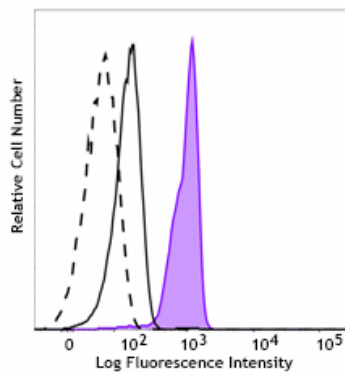
## Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-Phosphothreonine Antibody, PE anti-Phosphothreonine, Alexa Fluor® 647 anti-Phosphothreonine

## Product Data



PBMCs either untreated (negative control, open histogram) or treated for with Cell Activation Cocktail (without Brefeldin A)(Cat. No. 423301) (positive control, filled histogram) were fixed and permeabilized using True Phos™ Perm Buffer (Cat. No. 425401) and intracellularly stained with Alexa Fluor® 647 anti-Phosphothreonine (clone M380A), or Alexa Fluor® 647 anti-mouse IgG1, κ isotype control (Cat. No. 400136) (Open histogram, dashed line is representative for both, untreated and treated PBMC).

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