Phospho-S6 (Ser235, Ser236) Monoclonal Antibody (cupk43k), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	cupk43k
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2637099

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	2 Publications

Product Specific Information

Description: This cupk43k monoclonal antibody recognizes human and mouse ribosomal protein S6 (also known as 40S ribosomal protein S6, phosphoprotein NP33, RPS6, RS6, S6) when phosphorylated on serine 235 (S235, human) and serine 236 (S236, mouse). Ribosomal protein S6 is a component of the 40S subunit of the ribosome and is phosphorylated at multiple sites following stimulation of cells by growth factors, tumor promoting agents, or mitogens. Phosphorylation of ribosomal protein S6 by p70S6K and PKDCD results in upregulation of the translation of RNA coding for proteins involved in cell cycle entry. Ribosomal protein S6 is dephosphorylated upon growth arrest.

The specificity of the cupk43k monoclonal antibody was determined by western blotting.

Applications Reported: This cupk43k antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This cupk43k antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of stimulated normal peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

Use of Protocol A: Two-step protocol: intracellular (cytoplasmic) proteins allows for the greatest flexibility for detection of surface and intracellular (cytoplasmic) proteins. Use of Protocol B: One-step protocol: intracellular (nuclear) proteins is

recommended for staining of transcription factors in conjunction with surface and phosphorylated intracellular (cytoplasmic) proteins. Protocol C: Two-step protocol: Fixation/Methanol allows for the greatest discrimination of phospho-specific signaling between unstimulated and stimulated samples, but with limitations on the ability to stain specific surface proteins (refer to "Clone Performance Following Fixation/Permeabilization" located in the Best Protocols Section under the Resources tab online). All Protocols can be found in the "Staining Intracellular Antigens for Flow Cytometry Protocol" located in the Best Protocols Section under the Resources tab online.

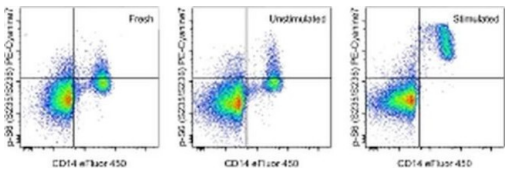
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Phospho-S6 (Ser235, Ser236) Monoclonal Antibody (cupk43k), PE-Cyanine7, eBioscience™



Phospho-S6 (Ser235, Ser236) Antibody (25-9007-42) in Flow
Intracellular staining of freshly-harvested (left), unstimulated (middle), or 30-minute LPS-stimulated (right) normal human peripheral blood cells with Anti-Human CD14 eFluor® 450 (Product # 48-0149-42) and Anti-Human/Mouse phospho-S6 Ribosomal (S235/S236) PE-Cyanine7, using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Cells in the lymphocyte/ monocyte gate were used for analysis.

2 References

Flow Cytometry (2)

Cell

Long-Term Programming of CD8 T Cell Immunity by Perinatal Exposure to Glucocorticoids.

"25-9007 was used in Flow cytometry/Cell sorting to demonstrate that perinatal stress can have long-term consequences on CD8 T cell immunity by altering HPA axis activity."

Authors: Hong JY,Lim J,Carvalho F,Cho JY,Vaidyanathan B,Yu S,Annicelli C,Ip WKE,Medzhitov R

Year
2020

Species
Mouse

Cell reports

IFN Impairs Autophagic Degradation of mtDNA Promoting Autoreactivity of SLE Monocytes in a STING-Dependent Fashion.

"25-9007 was used in Flow cytometry/Cell sorting to demonstrate IFN-mediated deregulation of mitochondrial metabolism and impairment of autophagic degradation, leading to cytosolic accumulation of mtDNA that is sensed via stimulator of interferon genes to promote induction of autoinflammatory DCs."

Authors: Gkirtzimanaki K,Kabrani E,Nikoleri D,Polyzos A,Blanas A,Sidiropoulos P,Makrigiannakis A,Bertsias G, Boumpas DT,Verginis P

Year
2018

Species
Human