Perm Buffe

## PerCP/Cyanine5.5 anti-RPS6 Phospho (Ser235/Ser236)

Catalog # / Size:	3643040 / 100 tests 3643035 / 25 tests	
Clone:	A17020B	Relative Cell Number
lsotype:	Mouse IgG1, к	
Immunogen:	Synthetic peptide from human RPS6 phosphorylated at Serines 235 and 236	
<b>Reactivity:</b>	Human, Mouse	Selar Selar
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine 5.5 under optimal conditions. The solution is free of unconjugated PE/Cyanine 5.5 and unconjugated antibody.	Human peripheral blood lymphocytes were stimulated with (filled histogram) or without (open histogram) Cell Activation Cocktail without Brefeldin A (Cat. No. 423302) for 15 minutes, fixed with Fixation Buffer, permeabilied with True-Phos™
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	
Concentration:	Lot-specific	

## **Applications:**

Applications:	Intracellular Flow Cytometry	
Recommended Usage:	Each lot of this antibody is quality control tested by intracellular flow cytometry using our True-Phos <sup>TM</sup> Perm Buffer in Whole Blood Protocol. For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ l per million cells or 5 $\mu$ l per 100 $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.	
	* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.	
Application Notes:	Due to complete conservation of the immunizing sequence between humans, mouse and rat, this clone is is predicted to react with rat RPS6 phosphorylated at serines 235 and 236.	
Application		
References:	1. Jefferies HB, <i>et al</i> . 1997. <i>EMBO J</i> . 16:3693.	
	2. Ruvinsky I, et al. 2005. Genes. Dev.19:2199.	
	3. Chumacher AM, et al. 2006. Biochemistry. 45:13614	
	4. Roux PP,	

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com **Description:** Ribosomal protein S6 (RPS6) is a key component of the small 40S ribosomal subunit and is the major substrate of protein kinases in eukaryotic ribosomes. In response to various cellular stimuli such as mitogenic stimulation, insulin, and increased nutrient availability, upstream kinases such as RSK and p70 kinases phosphorylate RPS6 at multiple serine sites. These modifications facilitate the recruitment of the 7-methylguanasine cap complex, thereby promoting the assembly of the translational pre-initiation complex and increased cellular protein synthesis capacity. RPS6 has been shown to be hyperphosphorylated in certain cancers, and phosphorylation is a critical determinant of pancreatic β-cell size and systemic glucose homeostasis function in diabeteic mouse models.

## AntigenReferences:1. Jefferies HB, et al. 1997. EMBO J. 16:3693.

- 2. Ruvinsky I, et al. 2005. Genes. Dev. 19:2199.
- 3. Chumacher AM, et al. 2006. Biochemistry. 45:13614
- 4. Roux PP, et al. 2007. J. Biol. Chem. 282:14056.
- 5. Stevens C, et al. 2009. J. Biol. Chem. 284:334.
- 6. Schlafli P, et al. 2011. FEBS J. 278:1757.