## Phospho-Aurora A (Thr288)/Aurora B (Thr232)/Aurora C (Thr198) (CC12) rabbit mAb APC conjugate

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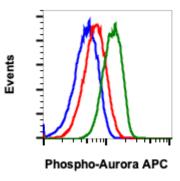
## Store at: 2-8°C

## **Catalog:** #2389

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	lsotype
Flow Cytometry	/ N/A	Monoclonal	Rabbit IgGk
Format:	APC		
Cross Reactivity:	Predicted to work with mouse, rat and other homologues.		
Formulation:	1X PBS, 0.09% NaN3, 0.2% BSA		
Preparation:	Protein A+G		
Reactivity:	Human		
Recommended Usage:	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 staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.		
Immunogen:	A synthetic phospho-peptide corresponding to residues surrounding human Aurora A (Thr288)/Aurora B (Thr232)/Aurora C (Thr198)		
Description:	Aurora kinases (serine/threonine kinases) are essential requirement for the onset and progression of mitosis. These kinases share a similar protein structure as well as kinase activity, however each kinase display distinct cellular and subcellular localization. Each Aurora member is phosphorylated at specific residues upon co- factor binding during mitosis. Aurora kinases acquire active kinase conformations due to the activation loop. The active kinase conformation is acquired upon auto- phosphorylation through an intermolecular (trans)-reaction within Aurora kinase domain. Aurora Kinase A (Aurora A) is involved in G2/M transition. AuroraA promotes centrosome maturation and mitotic spindle assembly, whereas AuroraB and AuroraC act as chromosome-passenger complex proteins. They play a crucial role in chromosomal binding to kinetochores and segregation of chromosomes. Aurora B is widely distributed in the cell, while AuroraC is expressed mainly in the meiotically-active germ cells. Aurora kinases are auto-phosphorylated into active forms at conserved threonine residues (i.e. the Thr288 (AurA), Thr232 (AurB) and Thr195 (AurC) residues). AuroraA auto-phosphorylation is initiated by several co- factors acting at different steps of mitosis. AroraB and AruroaC auto- phosphorylation are mediated by survivin and Borealin proteins.		
References:	Hochegger H, et al., (2013) Open Biol. 3:120185. Carmena M, et al., (2009) Curr Opin Cell Biol 21:796-805. [] Bolanos-Garcia VM. (2005) Int J Biochem Cell Biol. 37:1572-1577. Kimmins S, et al., (2007) Mol Endocrinol. 2007;21(3):726-739. Vader G, and Lens SMA. (2008) Biochim Biophys Acta. 1786:60-72.		





Flow cytometric analysis of HeLa cells untreated and unstained as negative control (blue) or untreated red) or treated with nocodazole (green) and stained using Phospho-Aurora A (Thr288)/Aurora B (Thr232)/Aurora C (Thr198) antibody AuroraABC-CC12 APC conjugate. Cat. #2389.

