Phospho-SAPK/JNK (Thr183/Tyr185) (A11) rabbit mAb

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Catalog: #2356 **Store at:** -20ºC

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

Applications	Detection	Clonality	Isotype
Flow Cytometry	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human

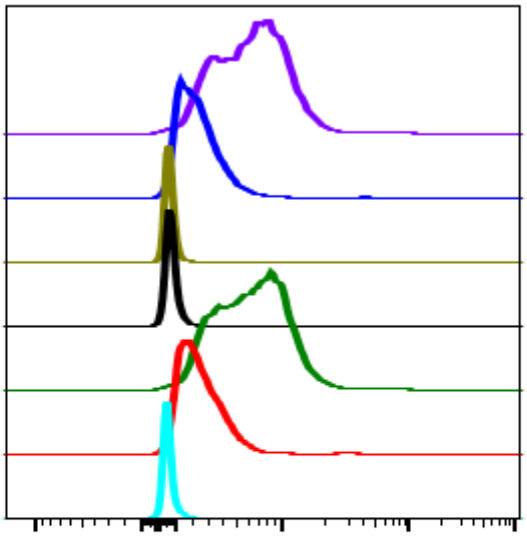
Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Thr183/Tyr185 of human phospho SAPK/JNK

Description: The SAPK/JNK pathway initiates apoptosis upon exposure to radiation, UV exposure, heat shock, oxidative stress, and other stressors. Upon exposure to environmental stress, the SAPK/JNK signaling pathway sequentially activates the proteins MEKK1, SEK1, SAPK, and c-Jun. Upstream activators of the SAPK/JNK cascade include ceramide, small GTP-binding proteins such as Rac1 and Cdc42Hs, Ask1, and caspases. MKK7 is also a major and direct SAPK/JNK activator in the TNFα or environmental stress signaling pathways, where its kinase activity directly phosphorylates SAPK/JNK. This relationship between MKK7 and SAPK appears to be evolutionarily conserved, as it is preserved in their Drosophila homologues, Hep and DJNK, respectively.

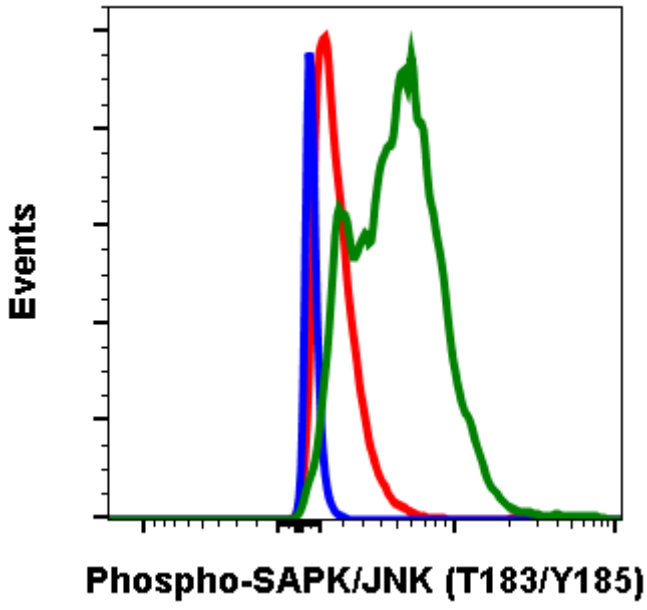
References:

Verheij M, Bose R, Lin XH, et al. (1996) Nature. 380: 75-79.
Verheij M, Ruiter GA, Zerp SF, et al. (1998) Radiotherapy and Oncology. 47: 225-232.
Moriguchi T, Toyoshima F, Masuyama N, et al. (1997) The EMBO Journal 16: 7045-7053.



	IgG	Treatment	Peptide Block	Median : BL1-A
	A11	UV	Non-phos.	6486
	A11	K252a	Non-phos.	2114
	A11	UV	Phospho.	594
	A11	K252a	Phospho.	674
	A11	UV	-	6438
	A11	K252a	-	2198
	2° only	K252a	-	492

Peptide blocking flow cytometric analysis of 293T cells secondary antibody only negative control (light blue) or treated with K252a (red) or with UV+TPA (green) or K252a and blocked with phospho-peptide (black) or UV and blocked with phospho pepeptide (gold) or K252a and blocked with non-phospho peptide (blue) or UV and blocked with non-phospho peptide (purple) using Phospho-SAPK/JNK (Thr183/Tyr185) antibody SAPKT183Y185-A11 at 0.01 µg/mL. Cat. #2356.



Flow cytometric analysis of 293T cells secondary antibody only negative control (blue) or treated with K252a (red) or with UV+TPA (green) using Phospho-SAPK/JNK (Thr183/Tyr185) antibody SAPKT183Y185-A11 at 0.01 µg/mL. Cat. #2356.