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

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Catalog: #2358 **Store at:** 2-8ºC

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

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGk

Format: FITC

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 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

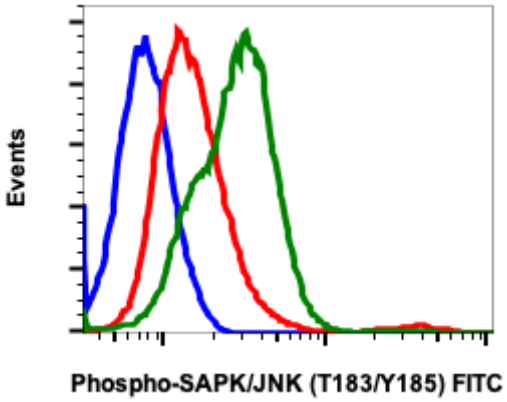
Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Thr183/Tyr185 of human phospho SAPK/JNK

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 J 16: 7045-7053.

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Flow cytometric analysis of 293T cells untreated and unstained as negative control (blue) or untreated (red) or with UV+TPA (green) and stained using Phospho-SAPK/JNK (Thr183/Tyr185) antibody SAPKT183Y185-A11 FITC conjugate. Cat. #2358.