Phospho-MSK1 (Thr581) (A5) rabbit mAb

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Catalog: #2181 **Store at:** -20ºC

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

Applications	Detection	Clonality	Isotype
Flow Cytometry,WB	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,Mouse,Rat

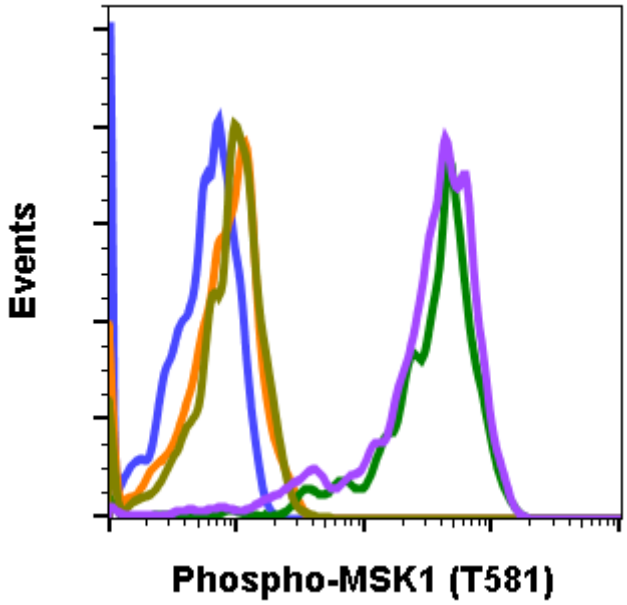
Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Thr581 of human phospho MSK1

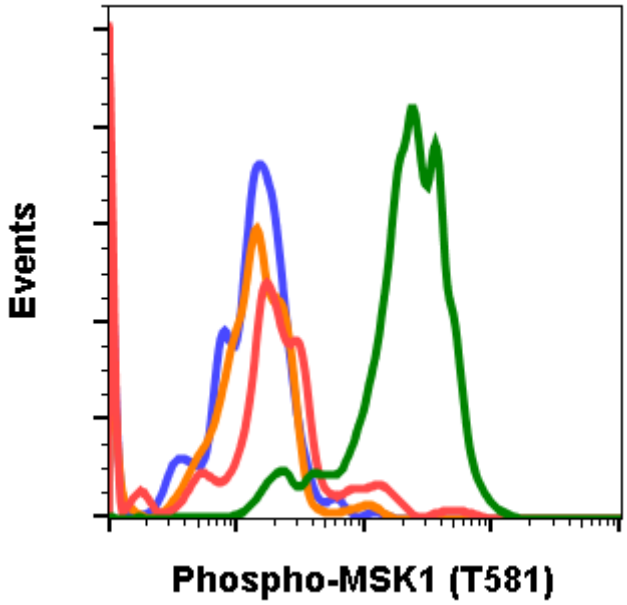
Description: MSK1 (mitogen and stress activated protein kinase 1, phospho MSK1) is activated by Erk in response to growth factors and by and p38 in response to cellular stress (1). MSK1 is similar to RSK1 in that it has two kinase domains and a connecting regulatory linker region (2). S364/S381 phosphorylation activates RSK1 (3), which is analogous to residues S360 and S376 of MSK1, which may be important for phospho MSK1 activity.

References:

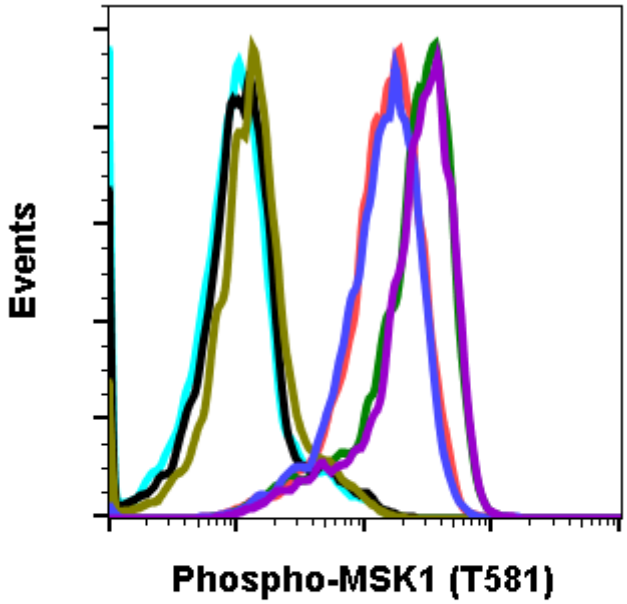
1. Deak, M. et al. (1998) EMBO J. 17, 4426-4441.
2. Pierrat, B. et al. (1998) J. Biol. Chem. 273, 29661-29671.
3. Dalby, K.N. et al. (1998) J Biol Chem 273, 1496-505.
4. Markou, T. and Lazou, A. (2002) Biochem J 365, 757-63.



Peptide blocking flow cytometric analysis of C6 cells secondary antibody only negative control (light blue) or pervanadate-treated and stained using 0.1µg/mL isotype control Cat. #2141 (orange) or pervanadate-treated and stained using 0.1µg/mL Phospho-MSK1 (Thr581) antibody MSK1T581-A5 Cat. #2181 (green) or pervanadate and blocked with phospho peptide (gold) or pervanadate and blocked with non-phospho peptide (purple).

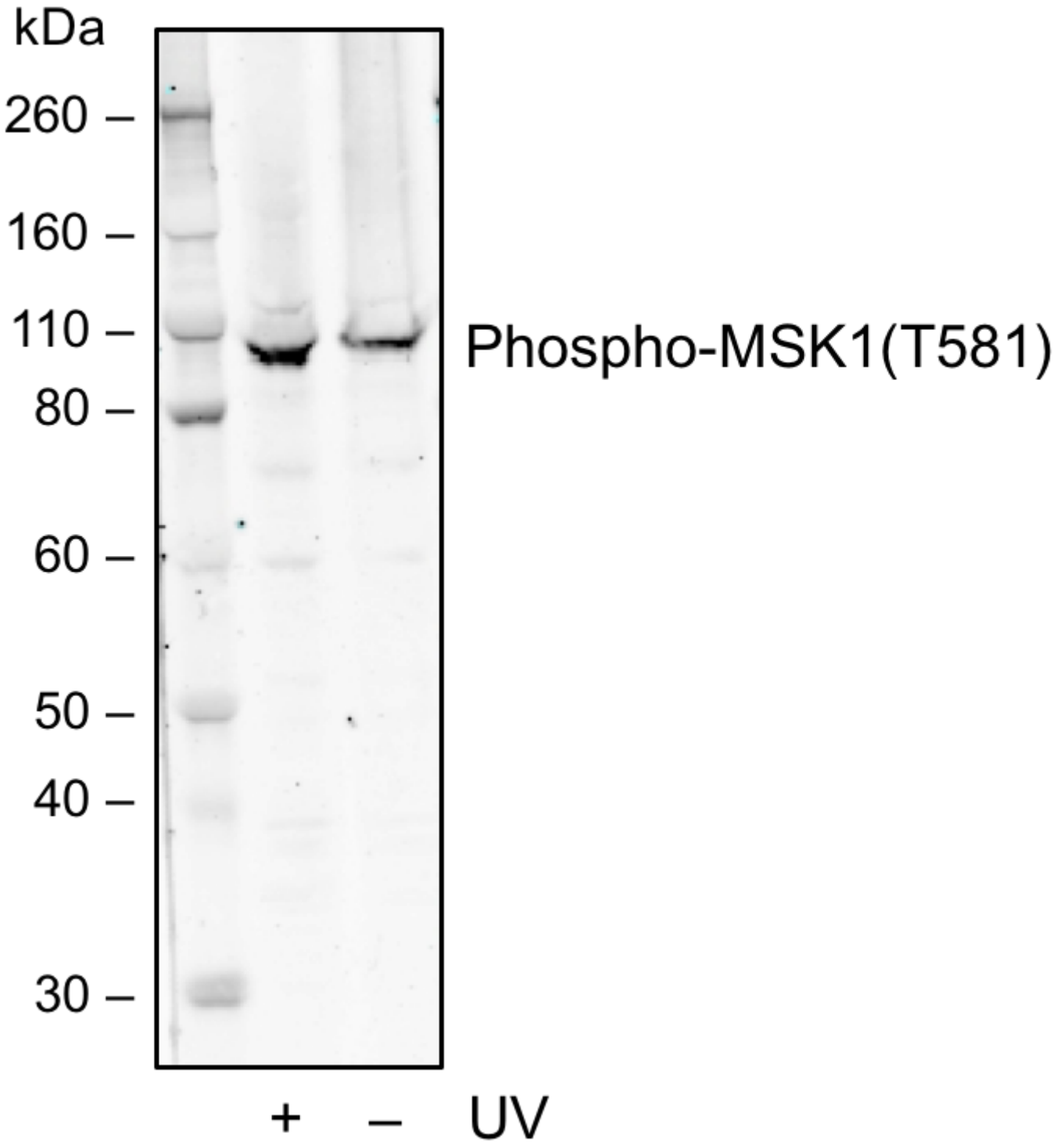


Flow cytometric analysis of C2C12 cells secondary antibody only negative control (blue) or 0.1 µg/mL of isotype control Cat. #2141 (orange) or treated with imatinib (red) or with pervanadate (green) using Phospho-MSK1 (Thr581) antibody MSK1T581-A5 at 0.1 µg/mL. Cat #2181.

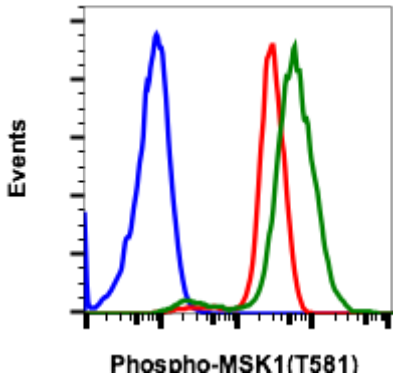


	SampleID	Median : BL1-A
☐	Pv A5 N	27200
☐	Imat A5 N	14362
☐	Pv A5 P	1313
☐	Imat A5 P	1079
☐	Pv A5	26239
☐	Imat A5	14922
☐	Imat 2' only	987

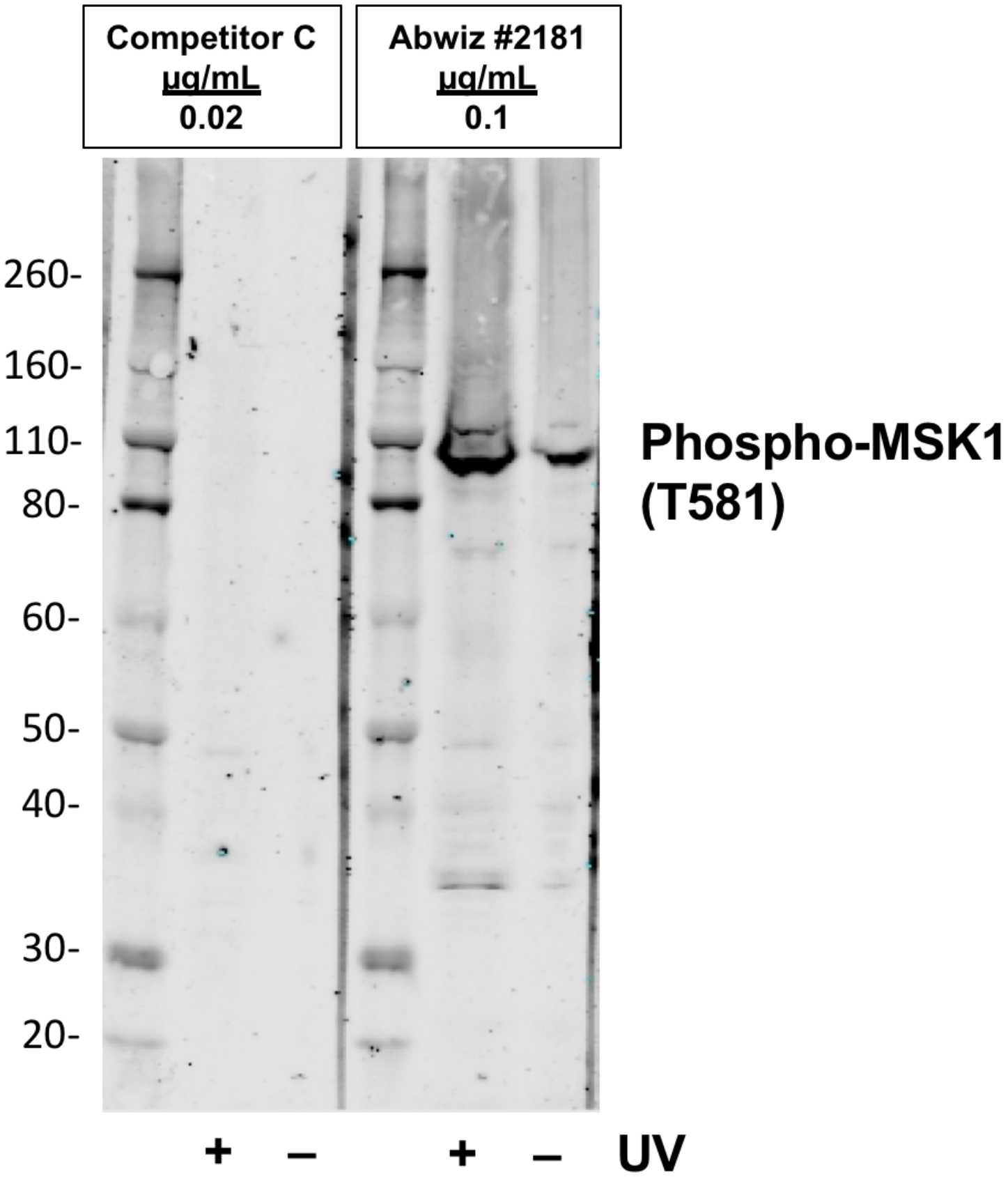
Peptide blocking flow cytometric analysis of K562 cells secondary antibody only negative control (light blue) or imatinib-treated (red) or pervanadate-treated (green) or imatinib and blocked with phospho-peptide (black) or pervanadate and blocked with phospho peptide (gold) or imatinib and blocked with non-phospho peptide (dark blue) or pervanadate and blocked with non-phospho peptide (purple) Phospho-MSK1 (Thr581) antibody MSK1T581-A5 at 0.1µg/mL. Cat. #2181.



Western blot analysis of 293T cell extract untreated or treated with UV using 0.1 ug/mL Phospho-MSK1 (Thr581) antibody MSK1T581-A5. Cat. #2181.



Flow cytometric analysis of U937 cells secondary antibody only negative control (blue) or untreated (red) or treated with CalA (green) using Phospho-MSK1(T581) antibody MSK1T581-A5 1.0 µg/mL. Cat. #2181.



Western blot analysis of 293T cell extract untreated or treated with staurosporine using 0.1 µg/mL Phospho-MSK1 (Thr581) antibody MSK1T581-A5 Cat. #2181 or Company C antibody at 0.02 µg/mL (manufacturer's recommended concentration) developed using the same exposure.