Phospho-MKK3 (Ser189)/MKK6 (Ser207) (D3) rabbit mAb

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Catalog: #2241 **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

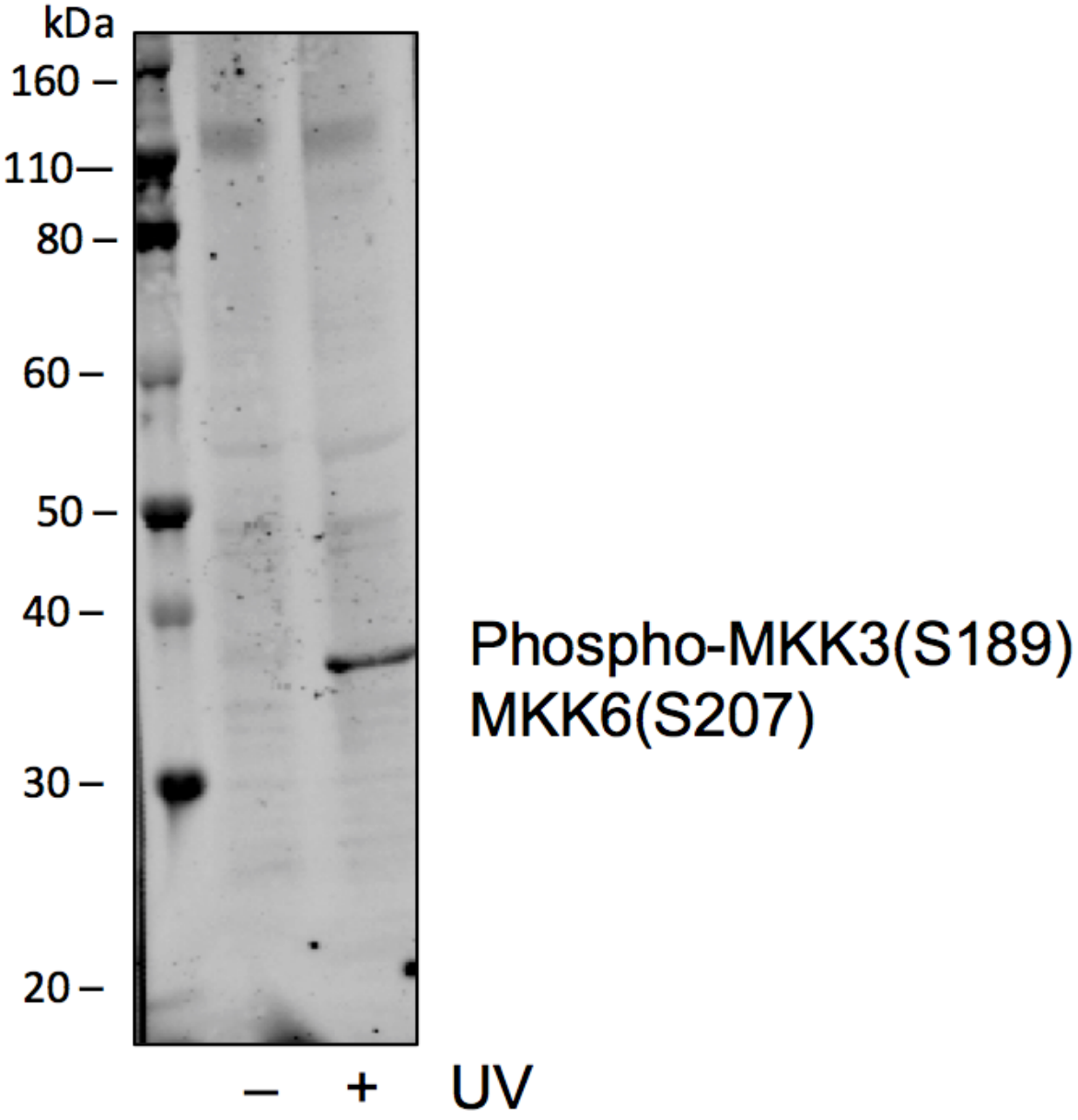
Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Ser189 of human phospho MKK3 and Ser207 of human phospho MKK6.

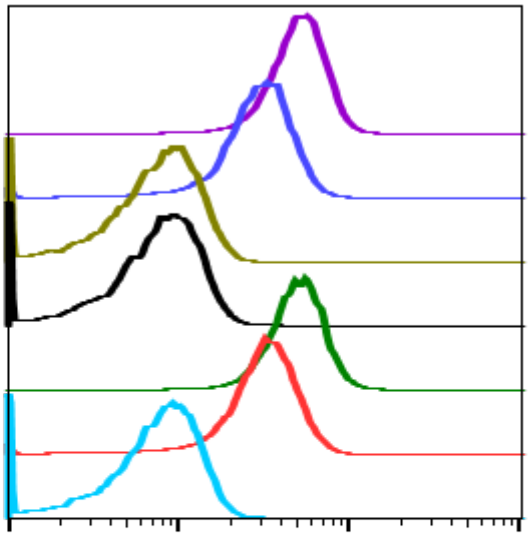
Description: MKK3 and MKK6 are closely related dual-specificity protein kinases that activate p38 MAP kinase (1-5). Phospho MKK3 and phospho MKK6 both phosphorylate and activate p38. p38 phosphorylation dramatically stimulates its ability to phosphorylate protein substrates such as ATF-2 and Elk-1. MKK3 and MKK6 are both activated by different forms of cellular stress and inflammatory cytokines (4,5). Phospho MKK3 and phospho MKK6 activation occurs through phosphorylation at S189 and T222 on MKK3 (2) and S207 and T211 on MKK6 (4,5).

References:

1. Derijard, B. et al. (1995) Science 267, 682-685.
2. Raingeaud, J. et al. (1995) J Biol Chem 270, 7420-6.
3. Sluss, H.K. et al. (1994) Mol. Cell. Biol. 14, 8376-8384.
4. Raingeaud, J. et al. (1996) Mol. Cell. Biol. 16(3), 1247-1255.
5. Han, J. et al. (1996) J. Biol. Chem. 271, 2886-2891.

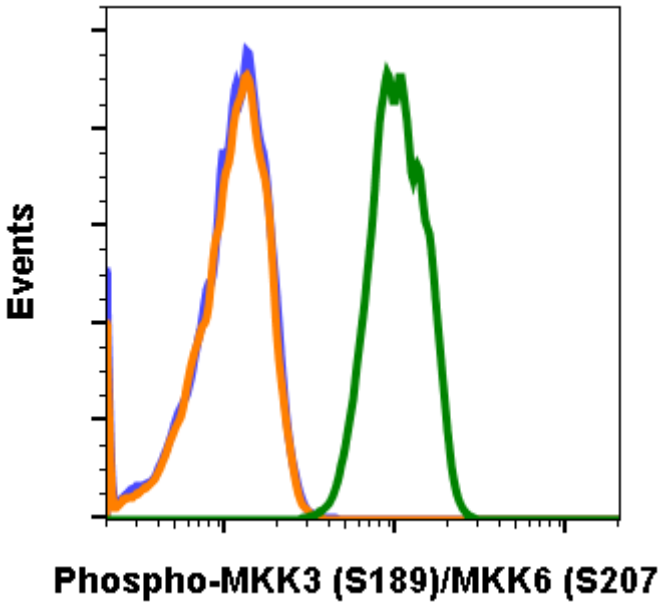


Western blot analysis of COS7 cell extract untreated or treated with UV using 0.05 µg/mL Phospho-MKK3 (Ser189)MKK6(S207) antibody MKK3S189MKK6S207-D3. Cat. #2241.

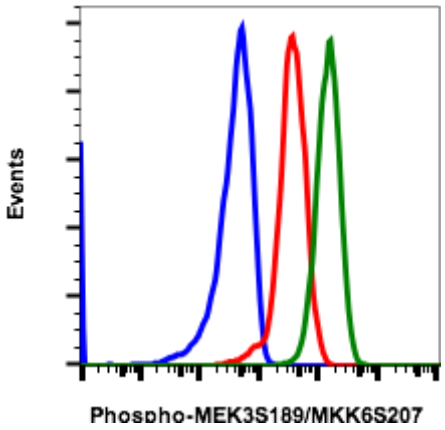


	SampleID	Median : BL1-A
	UVT D3 N	5011
	K252 D3 N	2966
	UVT D3 P	747
	K252 D3 P	761
	UVT D3	4911
	K252 D3	3184
	K252 2' only	754

Peptide blocking flow cytometric analysis of HEK293T cells secondary antibody only negative control (light blue) or treated with K252a (red) or UV/TPA-treated (green) or K252a and blocked with phospho-peptide (black) or UV/TPA and blocked with phospho peptide (gold) or K252a and blocked with non-phospho peptide (dark blue) or UV/TPA and blocked with non-phospho peptide (purple) using Phospho-MKK3(S189)/MKK6(S207) antibody MKK3S189MKK6S207-D3 0.1µg/mL. Cat. # 2241.



MKK3S189MKK6S207-D3 recognizes basal phosphorylation levels in mouse cells. Flow cytometric analysis of 3T3 cells secondary antibody only (blue) or 0.1 µg/mL of isotype control Cat. #2141 (orange) or of MKK3(S189)/MKK6(S207) antibody MKK3S189MKK6S207-D3 (green) Cat. #2241.



Flow cytometric analysis of HEK293T cells secondary antibody only negative control (blue) or treated with K252a (red) or treated with UV+TPA (green) using 0.5 µg/mL of Phospho-MKK3(Ser189)/MKK6(Ser207) antibody MKK3S189MKK6S207-D3 Cat. #2241.