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12-4117: Phospho-MKK3 (Ser189)/MKK6 (Ser207) (Clone: D3) rabbit mAb

Clonality :	Monoclonal
Clone Name :	MKK3S189MKK6S207-D3
Application :	FACS,WB
Reactivity :	Human, Mouse
Conjugate :	Unconjugated
Format :	Purified
Alternative Name :	Dual specificity mitogen-activated protein kinase kinase 3, MAP kinase kinase 3, MAPKK 3, MAPK/ERK kinase 3, Stress-activated protein kinase kinase 2, SAPK kinase 2, SAPKK2, MAP2K3, MEK3, PRKMK3, SKK2
Isotype :	Rabbit IgG1k
Immunogen Information :	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).

Product Info

Amount :	20 µl / 200 µl
Content :	1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

1Ã‚Âµg/mL - 0.001Ã‚Âµg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.(0.5mg/ml, more than 200 western blots)

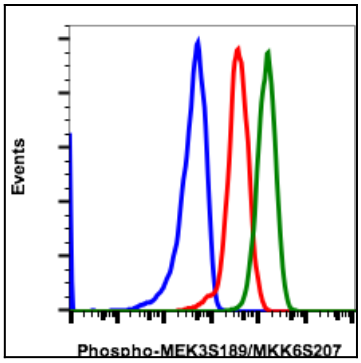

Fig-1: Flow cytometric analysis of HEK293T cells secondary antibody only negative control (blue) or treated with K252a (red) or treated with UV+TPA (green) using 0.5 µg/mL of Phospho-MKK3(Ser189)/MKK6(Ser207) antibody MKK3S189MKK6S207-D3.

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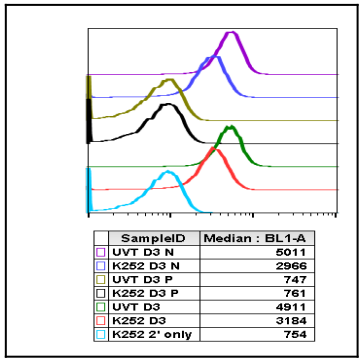

Fig 2 : Peptide blocking flow cytometric analysis of HEK293T cells secondary antibody only negative control (light blue) or treated with K252a (red) or UV/TPA-treated (green) or K252a and blocked with phospho-peptide (black) or UV/TPA and blocked with phospho peptide (gold) or K252a and blocked with 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.

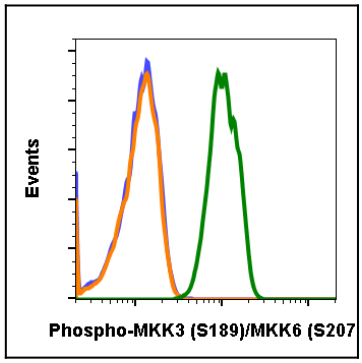

Fig-3: MKK3S189MKK6S207-D3 recognizes basal phosphorylation levels in mouse cells. Flow cytometric analysis of 3T3 cells secondary antibody only (blue) or 0.1 µg/mL of isotype control (orange) or of MKK3(S189)/MKK6(S207) antibody MKK3S189MKK6S207-D3 (green).

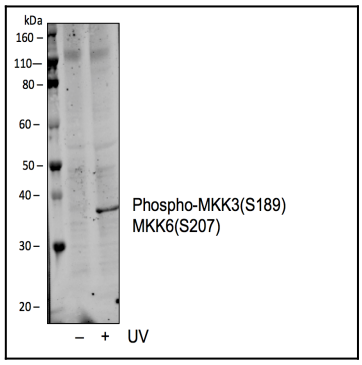

Fig-4: Western blot analysis of COS7 cell extract untreated or treated with UV using 0.05 µg/mL Phospho-MKK3 (Ser189)MKK6(S207) antibody MKK3S189MKK6S207-D3.