Phospho-MEK1 (Ser298) (H8) rabbit mAb

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Catalog: #2266 **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,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.

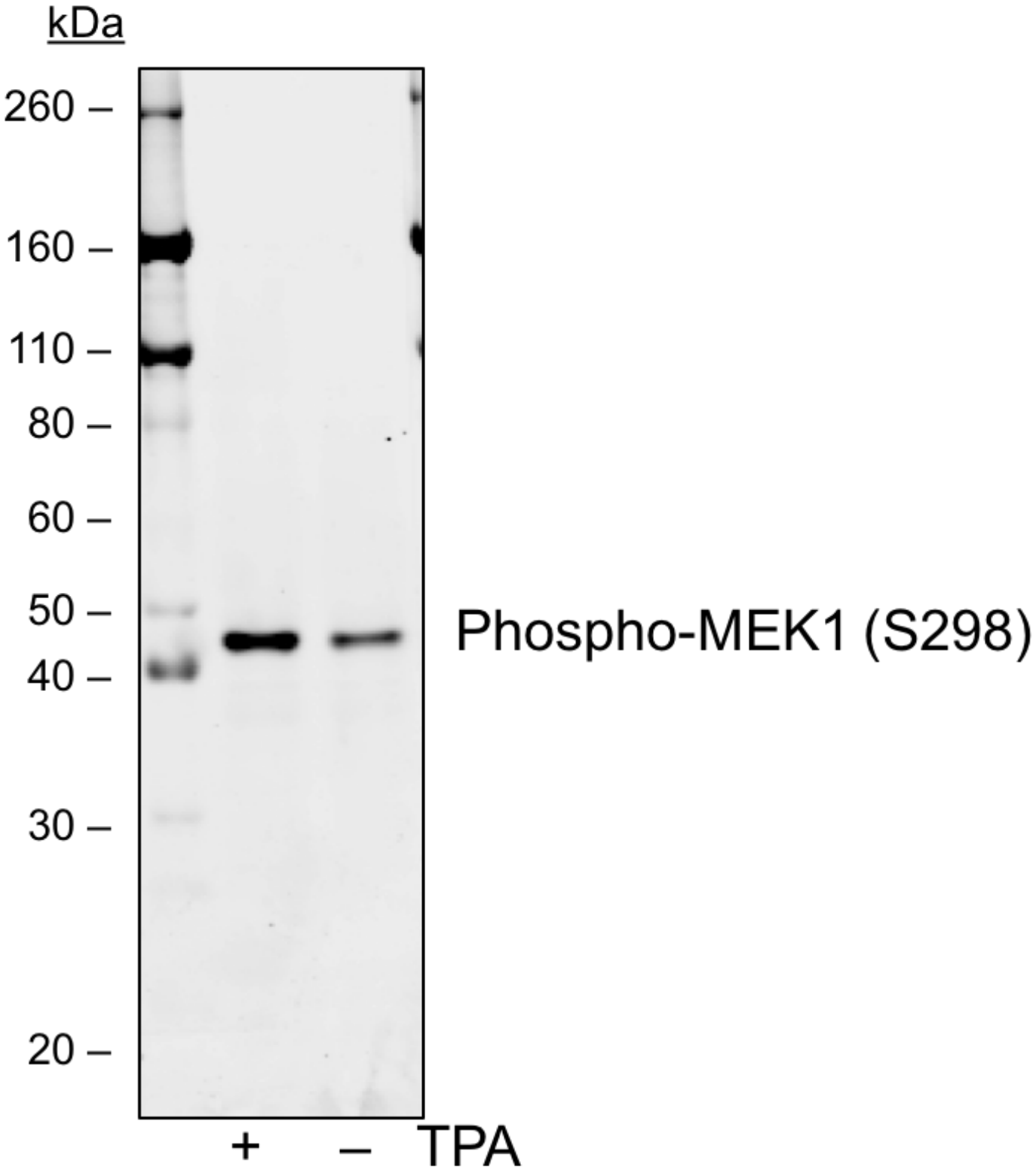
Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Ser298 of human phospho MEK1.

Description: Mitogen-activated protein kinase (MAPK) is the main building block of the intracellular signaling network. The signals are initiated by activation of a small G protein (e.g., Ras), followed by a sequential activation of several sets of protein kinases. The extracellular signal-regulated kinase (ERK) pathway is stimulated by a large number of extracellular stimuli as well as various internal processes. This cascade regulates processes related to proliferation, differentiation, development, and oncogenic transformation. The signaling is usually initially started by activation of small G proteins (e.g. Ras), which in turn recruits to the membrane and activates the MAP3K (Raf kinase). The cascade leads to the activation of MAP kinase kinases (MEKs). MEKs are phosphorylated at Ser218 and Ser222 in MEK1. The phosphorylation activates MEKs. Phosphorylation of MEK at other sites regulates its activity as well. For example, phosphorylation at Ser386 by ERKs may either inhibit ERKs activity or under certain condition, facilitate the activation of ERKs by enhancing the MEK1 binding to Grb10 scaffold protein. Phosphorylation of MEK1 at Ser298 by p21-activating protein (PAK1) may lead to its activation whereas this can be inhibited by a feedback phosphorylation of MEK1 at Thr292 by ERKs. Protein Ser/Thr phosphatase inactivates MEK by dephosphorylation of pSer218 and pSer222. Other phosphatases my also regulate MEK activity. Upon activation, MEKs behaves as a dual kinase and phosphorylate key Tyr and Thr residues of ERKs, thus causing their activation.

References:

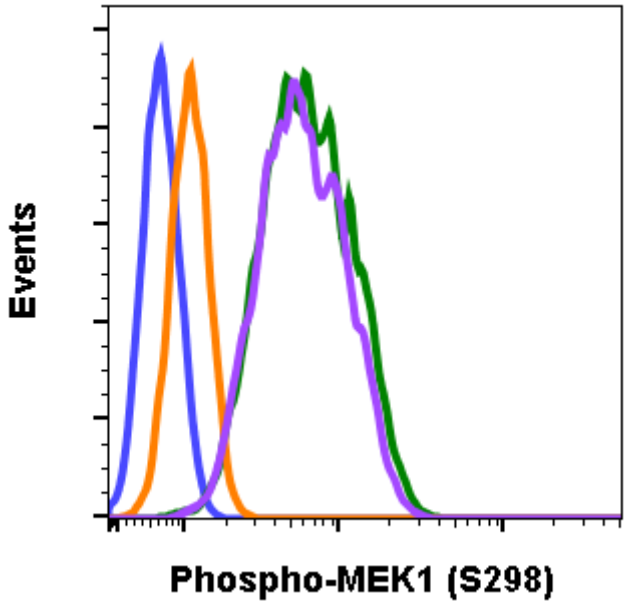
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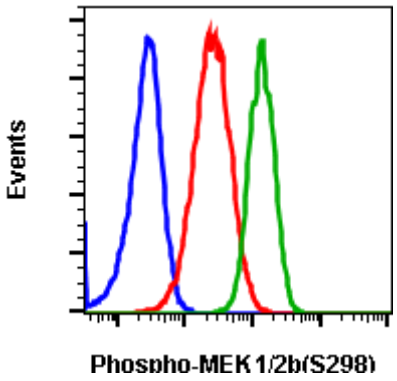


Western blot analysis of C6 cell extract untreated or treated with TPA using 0.01 µg/mL Phospho-MEK1 (S298) antibody MEK1S298-H8. Cat. #2266.

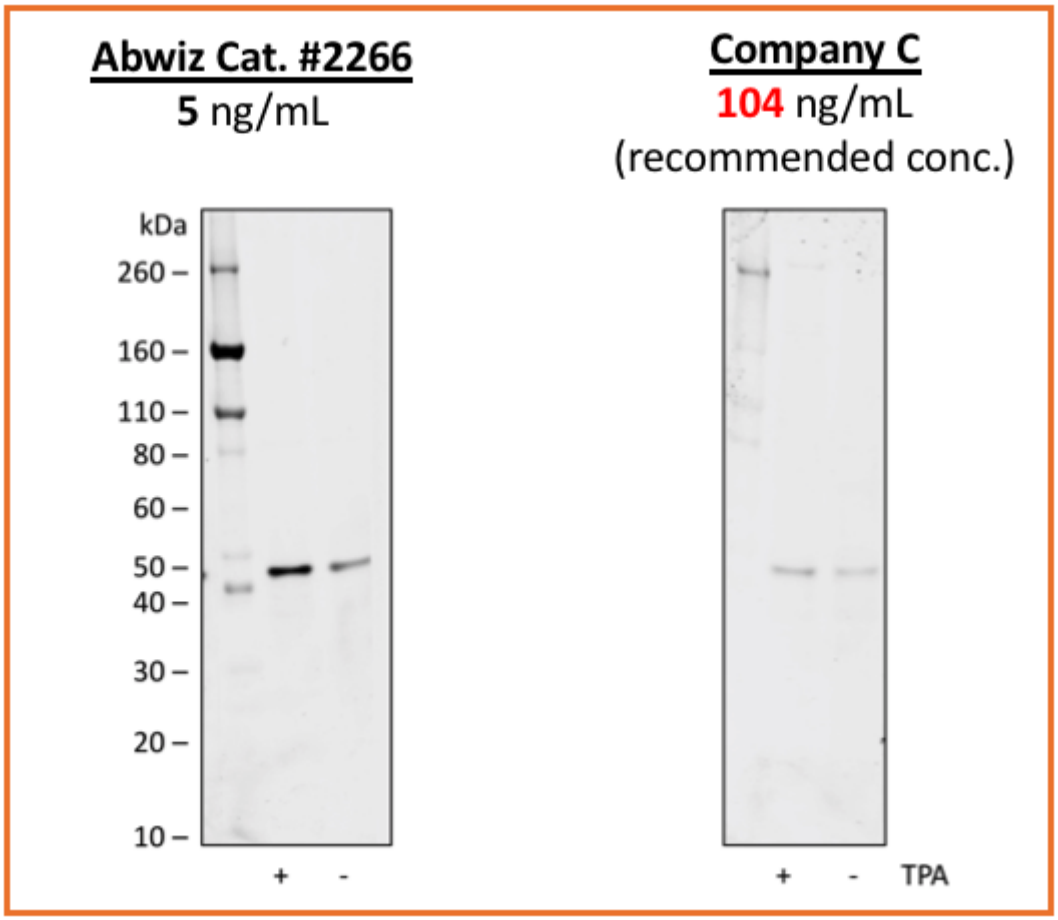
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Peptide blocking flow cytometric analysis of C6 cells secondary antibody only negative control (blue) or treated with MG132 (green) or treated and blocked with phospho peptide (orange) or treated and blocked with non-phospho peptide (purple) using Phospho-MEK1 (S298) antibody MEK1S298-H8 at 0.1 µg/mL. Cat. #2266.



Flow cytometric analysis of Hela cells secondary antibody only negative control (blue) or treated with imatinib (red) or treated with pervanadate (green) using Phospho-MEK1 (S298) antibody MEK1S298-H8 0.5 µg/mL. Cat. #2266.



Western blot analysis of C6 cell extract untreated or treated with TPA using 5 ng/mL Phospho-MEK1 (Ser298) antibody MEK1S98-H8. Cat.#2266 or Company C antibody at 104 ng/mL (manufacturer's recommended concentration) developed using the same exposure.

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