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12-4126: Phospho-MEK1 (Ser298) (Clone: H8) rabbit mAb APC conjugate

Clonality: Monoclonal
Clone Name: MEK1S298-H8

Application :FACSReactivity :HumanConjugate :APC

Alternative Name:

Dual specificity mitogen-activated protein kinase kinase 1, MAPK/ERK kinase 1, MAPKK1,

MAP2K1, PRKMK1

Isotype: Rabbit IgG1k

Immunogen Information: 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.

Product Info

Amount: 100 Tests

Content: 1X PBS, 0.09% NaN3, 0.2% BSA

Storage condition : Store at 2-8°C. Avoid repeated freeze and thaw cycles.

Application Note

For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells or 5 μ L per 100 μ L of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.(0.5mg/ml, more than 200 western blots)



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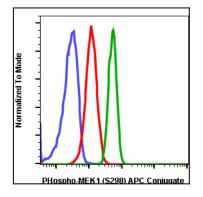


Fig-1: Flow cytometric analysis of Hela cells unstained (blue) or stained and treated with imatinib (red) or treated with pervanadate (green) using Phospho-MEK1 (S298) antibody MEK1S298-H8 APC conjugate.