

产品名称: MEK7 (5S16) Rabbit Monoclonal Antibody
产品货号: AMRe13809



产品概述 (Summary)

产品名称 (Production Name)	MEK7 (5S16) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,FC,IF-P
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	MAP2K7 MKK7; Jnk2; MAPKK7; PRKMK7; JNK-activating kinase 2; MAPKK 7; Mitogen
别名 (Alternative Names)	Activated Protein Kinase kinase 7; SAPKK4; stress-activated protein kinase kinase 4;
基因 ID (Gene ID)	5609.0
蛋白 ID (SwissProt ID)	O14733.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000,IHC 1:50-1:200,FC 1:50-1:200,IF-P 1:50-1:200
蛋白分子量 (Molecular Weight)	47kDa

产品名称: MEK7 (5S16) Rabbit Monoclonal Antibody
产品货号: AMRe13809



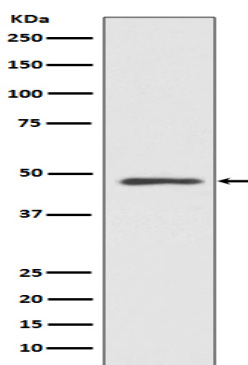
研究背景 (Background)

MEK7 is strongly activated by TNF- α , as well as other environmental stresses, whereas MEK1/MEK2, which activates both p38 and SAPK/JNK pathways, is not activated by TNF- α . Sequence alignment of the activation loop of the MAP kinase kinase family members indicates that Ser271 and Thr275 are potential phosphorylation sites that are crucial for the kinase activity. Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. Essential component of the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway. With MAP2K4/MEK4, is the one of the only known kinase to directly activate the stress-activated protein kinase/c-Jun N-terminal kinases MAPK8/JNK1, MAPK9/JNK2 and MAPK10/JNK3. MAP2K4/MEK4 and MAP2K7/MEK7 both activate the JNKs by phosphorylation, but they differ in their preference for the phosphorylation site in the Thr-Pro-Tyr motif. MAP2K4/MEK4 shows preference for phosphorylation of the Tyr residue and MAP2K7/MEK7 for the Thr residue. The monophosphorylation of JNKs on the Thr residue is sufficient to increase JNK activity indicating that MAP2K7/MEK7 is important to trigger JNK activity, while the additional phosphorylation of the Tyr residue by MAP2K4/MEK4 ensures optimal JNK activation. Has a specific role in JNK signal transduction pathway activated by proinflammatory cytokines. The MEK/JNK signaling pathway is also involved in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis. Part of a non-canonical MAPK signaling pathway, composed of the upstream MAP3K12 kinase and downstream MAP kinases MAPK1/ERK2 and MAPK3/ERK1, that enhances the AP-1-mediated transcription of APP in response to APOE (PubMed: 28111074).

研究领域 (Research Area)

Signal Transduction

图片 (Image Data)



Western blot analysis of MEK5 expression in HeLa cell lysate.

注意事项 (Note)

For research use only .