

Product datasheet

Anti-MEK1 + MEK2 antibody [3D9] ab69502

画像数 2

製品の概要

製品名	Anti-MEK1 + MEK2 antibody [3D9]
製品の詳細	Mouse monoclonal [3D9] to MEK1 + MEK2
由来種	Mouse
特異性	Recognizes human MEK1 and MEK2.
アプリケーション	適用あり: WB, ELISA, IHC-P
種交差性	交差種: Human
免疫原	Native MEK and recombinant MEK1
ポジティブ・コントロール	Brain. Jurkat cells.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.1% Sodium Azide Constituents: PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	3D9
アイソタイプ	IgG1

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab69502** in the following tested applications.

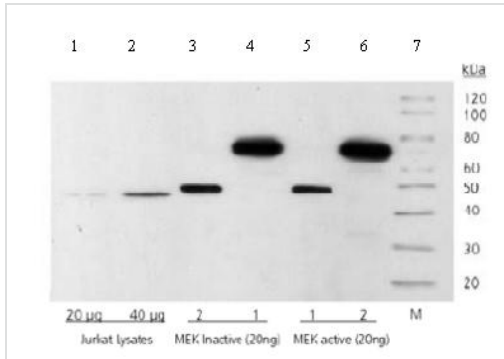
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		
ELISA		

アプリケーション	Abreviews	特記事項
IHC-P		
追加情報	<p>ELISA: Use at an assay dependent dilution.</p> <p>IHC-P: Use at a concentration of 1 µg/ml. Perform heat mediated antigen retrieval by boiling tissue sections in 10 mM citrate, pH 6.0 for 10 min followed by cooling at RT for 20 min before commencing with IHC staining protocol.</p> <p>WB: Use at a concentration of 0.5 µg/ml. Detects a band of approximately 43 kDa (predicted molecular weight: 43 kDa).</p> <p>Not yet tested in other applications.</p> <p>Optimal dilutions/concentrations should be determined by the end user.</p>	
ターゲット情報		
機能	<p>Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. Binding of extracellular ligands such as growth factors, cytokines and hormones to their cell-surface receptors activates RAS and this initiates RAF1 activation. RAF1 then further activates the dual-specificity protein kinases MAP2K1/MEK1 and MAP2K2/MEK2. Both MAP2K1/MEK1 and MAP2K2/MEK2 function specifically in the MAPK/ERK cascade, and catalyze the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in the extracellular signal-regulated kinases MAPK3/ERK1 and MAPK1/ERK2, leading to their activation and further transduction of the signal within the MAPK/ERK cascade. Depending on the cellular context, this pathway mediates diverse biological functions such as cell growth, adhesion, survival and differentiation, predominantly through the regulation of transcription, metabolism and cytoskeletal rearrangements. One target of the MAPK/ERK cascade is peroxisome proliferator-activated receptor gamma (PPARG), a nuclear receptor that promotes differentiation and apoptosis. MAP2K1/MEK1 has been shown to export PPARG from the nucleus. The MAPK/ERK cascade is also involved in the regulation of endosomal dynamics, including lysosome processing and endosome cycling through the perinuclear recycling compartment (PNRC), as well as in the fragmentation of the Golgi apparatus during mitosis.</p>	
組織特異性	Widely expressed, with extremely low levels in brain.	
関連疾患	Cardiofaciocutaneous syndrome 3	
配列類似性	<p>Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.</p> <p>Contains 1 protein kinase domain.</p>	
ドメイン	The proline-rich region localized between residues 270 and 307 is important for binding to RAF1 and activation of MAP2K1/MEK1.	
翻訳後修飾	<p>Phosphorylation at Ser-218 and Ser-222 by MAP kinase kinase kinases (RAF or MEKK1) positively regulates kinase activity. Also phosphorylated at Thr-292 by MAPK1/ERK2 and at Ser-298 by PAK. MAPK1/ERK2 phosphorylation of Thr-292 occurs in response to cellular adhesion and leads to inhibition of Ser-298 phosphorylation by PAK.</p> <p>Acetylation by Yersinia yopJ prevents phosphorylation and activation, thus blocking the MAPK signaling pathway.</p>	
細胞内局在	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton,	

microtubule organizing center, spindle pole body. Cytoplasm. Nucleus. Localizes at centrosomes during prometaphase, midzone during anaphase and midbody during telophase/cytokinesis.

画像



Western blot - Anti-MEK1 + MEK2 antibody [3D9] (ab69502)

All lanes : Anti-MEK1 + MEK2 antibody [3D9] (ab69502) at 0.5 µg/ml

Lane 1 : Jurkat whole cell lysates at 20 µg

Lane 2 : Jurkat whole cell lysates at 40 µg

Lane 3 : recombinant MEK2 inactive at 0.02 µg

Lane 4 : recombinant MEK1 inactive at 0.02 µg

Lane 5 : recombinant MEK1 active at 0.02 µg

Lane 6 : recombinant MEK2 active at 0.02 µg

Lane 7 : MW ladder

Secondary

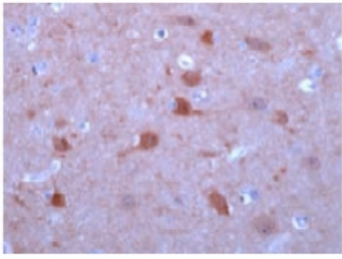
All lanes : HRP-conjugated goat anti-mouse secondary antibody

Developed using the ECL technique.

Predicted band size: 43 kDa

Observed band size: 43 or 71 kDa

Recombinant MEK1 (active and inactive) has a GST Tag resulting in a MW of ~71 kDa. The incubation with the primary antibody was carried o/n at 4°C.



Formalin-fixed, paraffin-embedded brain tissue stained with 1 µg/mL anti-MEK ab69502.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEK1 + MEK2 antibody [3D9] (ab69502)

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