重组人TAB1蛋白

Recombinant TAB1 protein (His tag)

目录号 Catalog Number	547356
同用名 Synonyms	Mitogen-activated protein kinase kinase kinase 7-interacting protein 1; TGF-beta-activated kinase 1-binding protein 1; TAK1-binding protein 1
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q15750
分子量 Molecular Weight	Predictes a molecular mass of 41.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

产品信息

序列区间 Sequence Region	1-370
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 1-370 aa (Q15750) were fused with C-terminal 6His tag.

保存与运输

复溶 Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
储存 Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
运输 Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

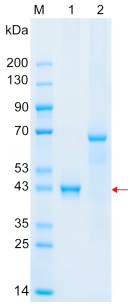
功能描述

研究背景 Background

Recombinant Human TAB1 (TGF-beta-activated kinase 1 and MAP3K7-binding protein 1) fragment (amino acids 1-370) encompassing the full PPM-type phosphatase domain. This high-purity protein is an essential tool for investigating JNK and NF-kappa-B signaling pathways, cytokine production, and TAK1 complex regulation in cellular and biochemical assays.
TAB1 is a critical adapter protein that plays a central role in innate immunity and inflammation by activating both JNK and NF-kappa-B signaling pathways in response to Toll-like receptor (TLR) and cytokine stimulation. It functions by binding to MAP3K7/TAK1's catalytic domain, triggering TAK1 autophosphorylation and full activation, and similarly activates MAPK14 through association. TAB1 also facilitates recruitment of MAPK14 to the TAK1 complex for phosphorylation of TAB2/TAB3 regulatory subunits, while MAPK14-mediated phosphorylation of TAB1 provides feedback inhibition of TAK1 activation. The protein localizes primarily to the cytoplasm and cytosol, wi

验证数据

SDS-PAGE



Recombinant TAB1 protein (His tag) SDS-PAGE
M: Marker; Lane 1: TAB1; Lane 2: BSA