

Recombinant human MAK protein ab190407

5 图像

描述	
产品名称	重组人MAK蛋白
生物活性	The specific activity of ab190407 was determined to be 40 nmol/min/mg.
纯度	> 75 % SDS-PAGE. Assessed by densitometry. Affinity purified.
表达系统	Baculovirus infected Sf9 cells
Accession	<u>P20794</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MNRYTTMRQLGDGTYGSVLMGKSNESEGELVAIKRMKRKFYSW DECMNLRE VKSLKKLNHANVIKLKEVIRENDHLYFIFEYMKENLYQLMKD RNKLPES VIRNIMYQILQGLAFIHKHGFFHRDMKPENLLCMGPELVKIA DFGLAREL RSQPPYTDYVSTRWYRAPEVLLRSSVYSSPIDVWAVGSIMAE LYMLRPLF PGTSEVDEIFKICQVLGTPKKSDWPEGYQLASSMNFRFPQCV PINLKTLI PNASNEAIQLMTEMLNWDPKKRPTASQALKHPYFQVGQVLGP SSNHLESK QSLNKQLQPLESKPSLVEVEPKPLPDIIDQVVGQPQPKTSQQ PLQPIQPP QNL SVQQPPKQQSQEQPPQTLFPSIVKNMPTKPNGTLSHKSG RRRWGQTI FKSGDSWEELEDYDFGASHSKKPSMGVFKEKRKKDSPFRLPE PVPSGSNH STGENKSLPAVTSLKSDSELSTAPTSKQYYLKQSRYPGVNP KKVSLIAS GKEINPHTWSNQLFPKSLGPVGAELAFKRSNAGNLGSYATYN QSGYIPSF LKKEVQSAGQRIHLAPLNATASEYTWNTKTGRGQFSGRTYNP TAKNLNIV NRAQPIPSVHGRTDWWAKYGGHR

预测分子量	78 kDa including tags
氨基酸	1 to 623
标签	proprietary tag N-Terminus

技术指标

Our Abpromise guarantee covers the use of ab190407 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
应用	Western blot Functional Studies
形式	Liquid
补充说明	ab64311 (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity

制备和贮存

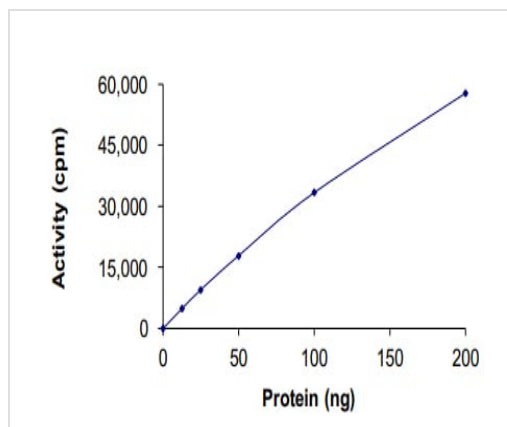
稳定性和存储	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.79% Tris HCl, 0.87% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.002% PMSF, 25% Glycerol (glycerin, glycerine) This product is an active protein and may elicit a biological response in vivo, handle with caution.
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常规信息

功能	Essential for the regulation of ciliary length and required for the long-term survival of photoreceptors (By similarity). Phosphorylates FZR1 in a cell cycle-dependent manner. Plays a role in the transcriptional coactivation of AR. Could play an important function in spermatogenesis. May play a role in chromosomal stability in prostate cancer cells.
组织特异性	Expressed in prostate cancer cell lines at generally higher levels than in normal prostate epithelial cell lines. Isoform 1 is expressed in kidney, testis, lung, trachea, and retina. Isoform 2 is retina-specific where it is expressed in rod and cone photoreceptors.
疾病相关	Defects in MAK are the cause of retinitis pigmentosa type 62 (RP62) [MIM:614181]. RP62 is a retinal dystrophy belonging to the group of pigmentary retinopathies. Retinitis pigmentosa is characterized by retinal pigment deposits visible on fundus examination and primary loss of rod photoreceptor cells followed by secondary loss of cone photoreceptors. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well.
序列相似性	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. Contains 1 protein kinase domain.
翻译后修饰	Autophosphorylated. Phosphorylated on serine and threonine residues.
细胞定位	Nucleus. Cytoplasm > cytoskeleton > centrosome. Cytoplasm > cytoskeleton > spindle. Midbody. Cell projection > cilium > photoreceptor outer segment. Photoreceptor inner segment. Localized in both the connecting cilia and the outer segment axonemes (By similarity). Localized uniformly in nuclei during interphase, to the mitotic spindle and centrosomes during metaphase and

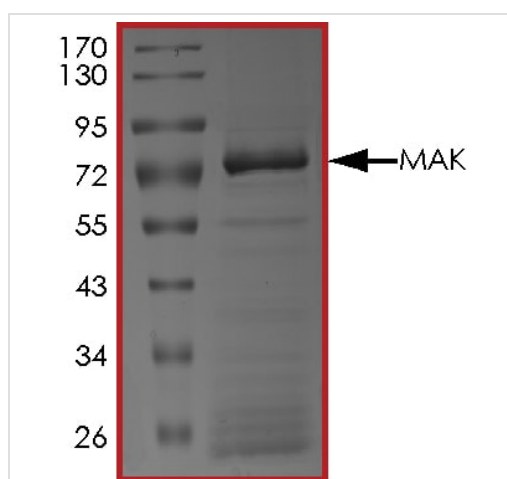
anaphase, and also to midbody at anaphase until telophase.

图片



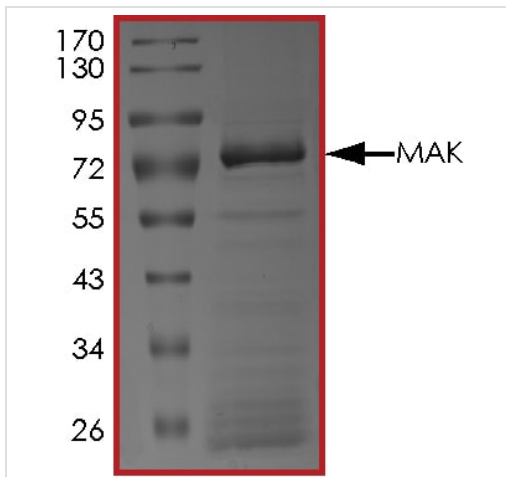
The specific activity of MAK (ab190407) was determined to be 35 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human MAK protein (ab190407)



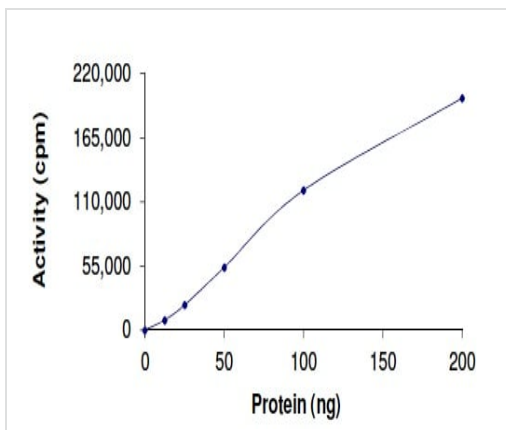
SDS PAGE analysis of ab190407

SDS-PAGE - Recombinant human MAK protein (ab190407)



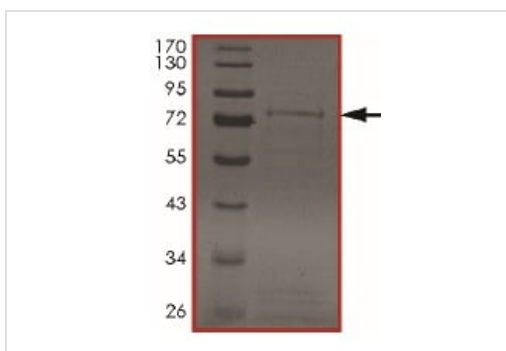
SDS-PAGE - Recombinant human MAK protein
(ab190407)

SDS PAGE analysis of ab190407



Functional Studies - Recombinant human MAK
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SDS-PAGE - Recombinant human MAK protein
(ab190407)

The purity of ab190407 was determined to be >75% by
densitometry.

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