abcam

Product datasheet

Recombinant Human Eg5 protein ab152491

1 图像

描述

产品名称	重组人Eg5蛋白
表达系统	Wheat germ
Accession	P52732
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	LLDQLKRKQPELLMMLNCSENNKEETIPDVDVEEAVLGQYTEEPLSQEPS VDAGVDCSSIGGVPFFQHKKSHGKDKENRGINTLERSKVEETTEHLVTKS RLPLRAQINL
预测分子量	38 kDa including tags
氨基酸	947 to 1056

技术指标

Our **Abpromise guarantee** covers the use of **ab152491** in the following tested applications.

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

应用	ELISA SDS-PAGE Western blot
形式	Liquid
补充说明	

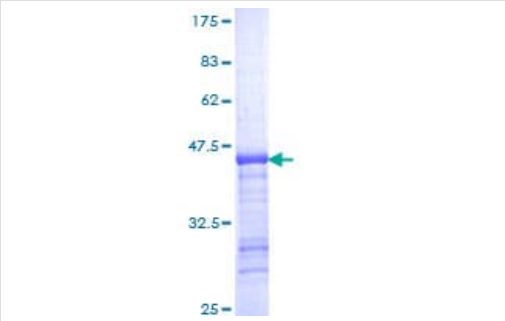
制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

常规信息

功能	Motor protein required for establishing a bipolar spindle. Blocking of KIF11 prevents centrosome migration and arrest cells in mitosis with monoastral microtubule arrays.
疾病相关	Defects in KIF11 are the cause of microcephaly with or without chorioretinopathy, lymphedema, or mental retardation (MCLMR) [MIM:152950]. An autosomal dominant disorder that involves an overlapping but variable spectrum of central nervous system and ocular developmental anomalies. Microcephaly ranges from mild to severe and is often associated with mild to moderate developmental delay and a characteristic facial phenotype with upslanting palpebral fissures, broad nose with rounded tip, long philtrum with thin upper lip, prominent chin, and prominent ears. Chorioretinopathy is the most common eye abnormality, but retinal folds, microphthalmia, and myopic and hypermetropic astigmatism have also been reported, and some individuals have no overt ocular phenotype. Congenital lymphedema, when present, is typically confined to the dorsa of the feet, and lymphoscintigraphy reveals the absence of radioactive isotope uptake from the webspaces between the toes.
序列相似性	Belongs to the kinesin-like protein family. BimC subfamily. Contains 1 kinesin-motor domain.
翻译后修饰	Phosphorylated exclusively on serine during S phase, but on both serine and Thr-926 during mitosis, so controlling the association of KIF11 with the spindle apparatus (probably during early prophase). Phosphorylated upon DNA damage, probably by ATM or ATR. A subset of this protein primarily localized at the spindle pole is phosphorylated by NEK6 during mitosis; phosphorylation is required for mitotic function.
细胞定位	Cytoplasm. Cytoplasm > cytoskeleton > spindle pole.

图片



SDS-PAGE - Recombinant Human Eg5 protein (ab152491)

12.5% SDS-PAGE analysis of ab152491 stained with Coomassie Blue.

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