

Product datasheet

Recombinant Human CHMP2B protein ab112405

1 图像

概述

产品名称	重组人CHMP2B蛋白
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Wheat germ

氨基酸序列

Accession [Q9UQN3](#)

种属 Human

序列 MASLFKKKTVDDVIKEQNRELRGTQRAIIRDRAALEKQEKQLELEIKKMA  
KIGNKEACKVLAKQLVHLRKQKTRTFVSSKVTSMSTQTKVMNSQMKMAG  
AMSTTAKTMQAVNKKMDPQKTLQTMQNFQKENMKMEMTEEMINDTLDDIF  
DGSDEEESQDIVNQVLDEIGIEISGKMAKAPSAARSLPSASTSKATISD  
EEIERQLKALGVD

分子量	49 kDa including tags
氨基酸	1 to 213

技术指标

Our [Abpromise guarantee](#) covers the use of **ab112405** in the following tested applications.

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

应用	SDS-PAGE ELISA Western blot
形式	Liquid
补充说明	Best to use within three months from the date of receipt of this protein.

制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
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pH: 8.00

Constituents: 0.79% Tris HCl, 0.31% Glutathione

## 常规信息

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### 功能

Probable core component of the endosomal sorting required for transport complex III (ESCRT-III) which is involved in multivesicular bodies (MVBs) formation and sorting of endosomal cargo proteins into MVBs. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. The MVB pathway appears to require the sequential function of ESCRT-O, -I, -II and -III complexes. ESCRT-III proteins mostly dissociate from the invaginating membrane before the ILV is released. The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis and the budding of enveloped viruses (HIV-1 and other lentiviruses). ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4.

### 组织特异性

Widely expressed. Expressed in brain, heart, skeletal muscle, spleen, kidney, liver, small intestine, pancreas, lung, placenta and leukocytes. In brain, it is expressed in cerebellum, cerebral cortex, medulla, spinal chord, occipital lobe, frontal lobe, temporal lobe and putamen.

### 疾病相关

Defects in CHMP2B are the cause of frontotemporal dementia, chromosome 3-linked (FTD3) [MIM:600795]. FTD3 is characterized by an onset of dementia in the late 50's initially characterized by behavioral and personality changes including apathy, restlessness, disinhibition and hyperorality, progressing to stereotyped behaviors, non-fluent aphasia, mutism and dystonia, with a marked lack of insight. The brains of individuals with FTD3 have no distinctive neuropathological features. They show global cortical and central atrophy, but no beta-amyloid deposits.

### 序列相似性

Belongs to the SNF7 family.

### 结构域

The acidic C-terminus and the basic N-terminus are thought to render the protein in a closed, soluble and inactive conformation through an autoinhibitory intramolecular interaction. The open and active conformation, which enables membrane binding and oligomerization, is achieved by interaction with other cellular binding partners, probably including other ESCRT components.

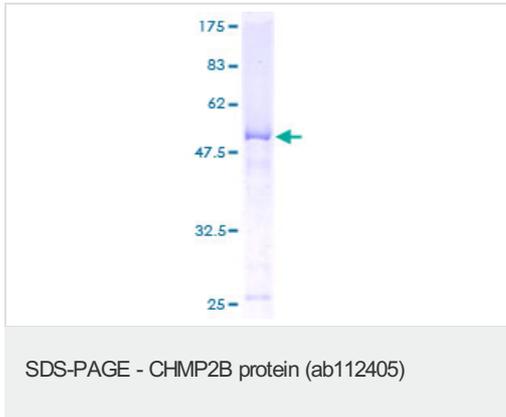
### 细胞定位

Cytoplasm > cytosol. Late endosome membrane.

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## 图片

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12.5% SDS-PAGE analysis of ab112405.  
Stained with Coomassie Blue

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