

Recombinant Human Bif-1 protein ab137149

1 图像

描述	
产品名称	重组人Bif-1蛋白
纯度	> 90 % SDS-PAGE. ab137149 is purified using conventional chromatography techniques.
表达系统	Escherichia coli
Accession	<u>Q9Y371</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MNIMDFNVKKLAADAGTFLSRAVQFTEEKLGQAECTELDAHL ENLLSKAE CTKIWTEKIMKQTEVLLQPNPNARIEEFVYEKLDRKAPSRIN NPELLGQY MIDAGTEFGPGTAYGNALIKCGETQKRIGTADRELIQTSALN FLTPLRNF IEGDYKTIAKERKLLQNKRLDLDAKTRLKKAKAAETRNSSE QELRITQS EFDRQAEITRLLLEGISSTHAHHLRCLNDFVEAQMTYYAQC QYMLDLQK QLGSFSPSNYLSNNNQTSVTPVPSVLPNAIGSSAMASTSGLVI TSPSNLSD LKECSGSRKARVLYDYDAANSTELSLLADEVITVFSVVGMD DWLMGERG NQKGKVPITYLELLNLEHHHHHH
预测分子量	42 kDa including tags
氨基酸	1 to 365
标签	His tag C-Terminus

技术指标	
Our <b>Abpromise guarantee</b> covers the use of <b>ab137149</b> in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
应用	Mass Spectrometry

	SDS-PAGE
质谱法	MALDI-TOF
形式	Liquid
补充说明	Previously labelled as Bif.
<b>制备和贮存</b>	
稳定性和存储	<p>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</p> <p>pH: 8.00</p> <p>Constituents: 0.03% DTT, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride</p>
<b>常规信息</b>	
功能	<p>May be required for normal outer mitochondrial membrane dynamics (PubMed:15452144). Required for coatomer-mediated retrograde transport in certain cells (By similarity). May recruit other proteins to membranes with high curvature. May promote membrane fusion (PubMed:11604418). Involved in activation of caspase-dependent apoptosis by promoting BAX/BAK1 activation (PubMed:16227588). Isoform 1 acts proapoptotic in fibroblasts (By similarity). Involved in caspase-independent apoptosis during nutrition starvation and involved in the regulation of autophagy. Activates lipid kinase activity of PI3K3C3 during autophagy probably by associating with the PI3K complex II (PI3KC3-C2) (PubMed:17891140). Associated with PI3KC3-C2 during autophagy may regulate the trafficking of ATG9A from the Golgi complex to the peripheral cytoplasm for the formation of autophagosomes by inducing Golgi membrane tubulation and fragmentation (PubMed:21068542). Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123). Isoform 2 acts antiapoptotic in neuronal cells; involved in maintenance of mitochondrial morphology and promotes neuronal viability.</p>
组织特异性	Highly expressed in heart, skeletal muscle, kidney and placenta. Detected at lower levels in brain, colon, thymus, spleen, liver, small intestine, lung and peripheral blood leukocytes.
序列相似性	<p>Belongs to the endophilin family.</p> <p>Contains 1 BAR domain.</p> <p>Contains 1 SH3 domain.</p>
结构域	<p>An N-terminal amphipathic helix, the BAR domain and a second amphipathic helix inserted into helix 1 of the BAR domain (N-BAR domain) induce membrane curvature and bind curved membranes.</p> <p>The SH3 domain is required and sufficient for the interaction with UVRAG.</p>
翻译后修饰	Phosphorylated at Thr-145 by CDK5; this phosphorylation is required for autophagy induction in starved neurons and facilitates homodimerization.
细胞定位	Cytoplasm. Golgi apparatus membrane. Mitochondrion outer membrane. Cytoplasmic vesicle, autophagosome membrane. Midbody. Association with the Golgi apparatus depends on the cell type (By similarity). Following starvation colocalizes with ATG5 and LC3 autophagy-related protein(s) on autophagosomal membranes (PubMed:17891140).



15% SDS-PAGE analysis of 3 µg ab137149.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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