

Recombinant Human G3BP protein ab103304

1 图像

| 描述 | |
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| 产品名称 | 重组人G3BP蛋白 |
| 纯度 | > 85 % SDS-PAGE. ab103304 was purified using conventional chromatography techniques. |
| 表达系统 | Escherichia coli |
| Accession | <u>Q13283</u> |
| 蛋白长度 | Full length protein |
| 无动物成分 | No |
| 性质 | Recombinant |
| 种属 | Human |
| 序列 | MVMEKPSPLLVGREFVRQYYTLLNQAPDMLHRFYGKNSSYVH GGLDSNGK PADAVYGQKEIHRKVMSQNFTNCHTKIRHVDAHATLNDGVVV QVMGLLSN NNQALRRFMQTFVLAPEGSVANKFYVHNDIFRYQDEVFGGFV TEPQEESE EEVEEPEERQQTPEVVPDDSGTFYDQAVVSNDMEEHLEEPVA EPEPDPEP EPEQEPVSEIQEEKPEPVLEETAPEDAQKSSSPAPADIAQTV QEDLRTFS WASVTSKNLPPSGAVPVTGIPPHVVKVPASQPRPESKPESQI PPQRPQRD QVRREQRINI PPQRGPRPIREAGEQGDI EPRRMVRHPDSHQL FIGNLPHE VDKSELKDFFQSYGNVVELRINSGGKLPNFGFVV FDDSEPVQ KVLSNRPI MFRGEVRLNVEEKKTRAAREGDRRDNRLRGPGGPRGGLGGGM RGPPRGGM VQKPGFGVGRGLAPRQVEHHHHHH |
| 预测分子量 | 53 kDa including tags |
| 氨基酸 | 1 to 466 |
| 标签 | His tag C-Terminus |
| 技术指标 | |

Our **Abpromise guarantee** covers the use of **ab103304** in the following tested applications.

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

| | |
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| 应用 | SDS-PAGE |
| | Mass Spectrometry |
| 质谱法 | MALDI-TOF |
| 形式 | Liquid |

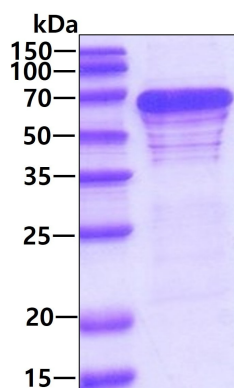
制备和贮存

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| 稳定性和存储 | 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. |
| | pH: 8.00 |
| | Constituents: 0.0308% DTT, 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride |

常规信息

| | |
|-------|--|
| 功能 | May be a regulated effector of stress granule assembly. Phosphorylation-dependent sequence-specific endoribonuclease in vitro. Cleaves exclusively between cytosine and adenine and cleaves MYC mRNA preferentially at the 3'-UTR. ATP- and magnesium-dependent helicase. Unwinds preferentially partial DNA and RNA duplexes having a 17 bp annealed portion and either a hanging 3' tail or hanging tails at both 5'- and 3'-ends. Unwinds DNA/DNA, RNA/DNA, and RNA/RNA substrates with comparable efficiency. Acts unidirectionally by moving in the 5' to 3' direction along the bound single-stranded DNA. |
| 组织特异性 | Ubiquitous. |
| 序列相似性 | Contains 1 NTF2 domain. Contains 1 RRM (RNA recognition motif) domain. |
| 结构域 | The NTF2 domain mediates multimerization. |
| 翻译后修饰 | Phosphorylated exclusively on serine residues. Hyperphosphorylated in quiescent fibroblasts. Hypophosphorylation leads to a decrease in endoribonuclease activity (By similarity). RASA1-dependent phosphorylation of Ser-149 induces a conformational change that prevents self-association. Dephosphorylation after HRAS activation is required for stress granule assembly. Ser-149 phosphorylation induces partial nuclear localization. Arg-435 is dimethylated, probably to asymmetric dimethylarginine. |
| 细胞定位 | Cytoplasm. Cytoplasm > cytosol. Cell membrane. Nucleus. Cytoplasmic in proliferating cells, can be recruited to the plasma membrane in exponentially growing cells (By similarity). Cytosolic and partially nuclear in resting cells. Recruited to stress granules (SGs) upon either arsenite or high temperature treatment. Recruitment to SGs is influenced by HRAS. |

图片



SDS-PAGE - Recombinant Human G3BP protein
(ab103304)

SDS-PAGE analysis of Recombinant Human G3BP protein (ab103304), under reducing conditions. Proteins visualized by coomassie blue stain.

Lane 1: Molecular Weight Standards

Lane 2: 3 µg Recombinant Human G3BP protein

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