

Datasheet for ABIN7583341

## Actin, gamma 1 Protein (ACTG1) (AA 1-375) (His tag)



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### Overview

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| Quantity:                     | 100 µg                                                |
| Target:                       | Actin, gamma 1 (ACTG1)                                |
| Protein Characteristics:      | AA 1-375                                              |
| Origin:                       | Rat                                                   |
| Source:                       | Yeast                                                 |
| Protein Type:                 | Recombinant                                           |
| Purification tag / Conjugate: | This Actin, gamma 1 protein is labelled with His tag. |
| Application:                  | ELISA                                                 |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sequence:        | <p> MEEEEIALVI DNGSGMCKAG FAGDDAPRAV FPSIVGRPRH QGVMVGMGQK DSYVGDEAQS<br/> KRGILTLKYP IEHGIVTNWD DMEKIWHHTF YNELRVAPEE HPVLLTEAPL NPKANREKMT<br/> QIMFETFNTF AMYVAIQAVL SLYASGRTTG IVMDSGDGVV HTVPIYEGYA LPHAILRLDL<br/> AGRDLTDYLM KILTERGYSF TTTAEREIVR DIKEKLCYVA LDFAQEMATA ASSSSLEKSY<br/> ELPDGQVITI GNERFRCPEA LFQPSFLGME SCGIHETTFN SIMKCDVDIR KDLYANTVLS<br/> GGTTMPGIA DRMQKEITAL APSTMKIKII APPERKYSVW IGGSILASLS TFQQMWISKQ<br/> EYDESGPSIV HRKCF </p> |
| Specificity:     | Rattus norvegicus (Rat)                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Characteristics: | Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time.                                                                                                                                                                                                                                                                             |
| Purity:          | > 90 %                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Target Details

|                   |                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | Actin, gamma 1 (ACTG1)                                                                                                                                           |
| Alternative Name: | Actin, cytoplasmic 2 (Actg1) ( <a href="#">ACTG1 Products</a> )                                                                                                  |
| Background:       | Recommended name: Actin, cytoplasmic 2.<br>Alternative name(s): Gamma-actin Cleaved into the following chain: 1.<br>Actin, cytoplasmic 2, N-terminally processed |
| UniProt:          | <a href="#">P63259</a>                                                                                                                                           |
| Pathways:         | <a href="#">Myometrial Relaxation and Contraction</a> , <a href="#">Cell-Cell Junction Organization</a>                                                          |

## Application Details

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Comment:      | The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modified such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies. |
| Restrictions: | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Handling

|                  |                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------|
| Format:          | Lyophilized                                                                                         |
| Concentration:   | 0.2-2 mg/mL                                                                                         |
| Buffer:          | Tris-based buffer, 50 % glycerol                                                                    |
| Handling Advice: | Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week |
| Storage:         | -20 °C                                                                                              |
| Storage Comment: | Store at -20 °C, for extended storage, conserve at -20 °C or -80 °C.                                |