

Datasheet for ABIN7583337

## Smooth Muscle Actin Protein (AA 3-377) (His tag)



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### Overview

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| Quantity:                     | 100 µg                                                     |
| Target:                       | Smooth Muscle Actin (ACTA2)                                |
| Protein Characteristics:      | AA 3-377                                                   |
| Origin:                       | Cow                                                        |
| Source:                       | Yeast                                                      |
| Protein Type:                 | Recombinant                                                |
| Purification tag / Conjugate: | This Smooth Muscle Actin protein is labelled with His tag. |
| Application:                  | ELISA                                                      |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sequence:        | EEEDSTAL VCDNGSGLCK AGFAGDDAPR AVFPSIVGRP RHQGVVMVGMG QKDSYVGVDEA<br>QSKRGILTLK YPIEHGIITN WDDMEKIWHH SFYNELRVAP EEHPTLLTEA PLNPKANREK<br>MTQIMFETFN VPAMYVAIQA VLSLYASGRT TGIVLDSGDG VTHNVPIYEG YALPHAIMRL<br>DLAGRDLTDY LMKILTERGY SFVTTAEREI VRDIKEKLCY VALDFENEMA TAASSSSLEK<br>SYELPDGQVI TIGNERFRCP ETLFQPSFIG MESAGIHETT YNSIMKCDID IRKDLYANNV<br>LSGGTTMYPG IADRMQKEIT ALAPSTMKIK IIAPPERKYS VWIGGSILAS LSTFQQMWIS<br>KQEYDEAGPS IVHRKCF |
| Specificity:     | Bos taurus (Bovine)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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:           | Smooth Muscle Actin (ACTA2)                                                              |
| Alternative Name: | Actin, aortic smooth muscle (ACTA2) ( <a href="#">ACTA2 Products</a> )                   |
| Background:       | Recommended name: Actin, aortic smooth muscle.<br>Alternative name(s): Alpha-actin-2     |
| UniProt:          | <a href="#">P62739</a>                                                                   |
| Pathways:         | <a href="#">Myometrial Relaxation and Contraction, Skeletal Muscle Fiber Development</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.                                |