

# Myosin Heavy Chain 6, Cardiac Muscle, Alpha (MYH6) Recombinant Protein | MYH6 recombinant protein

Recombinant Myosin Heavy Chain 6, Cardiac Muscle, Alpha (MYH6)

|                              |                       |                                              |                                               |
|------------------------------|-----------------------|----------------------------------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA20287</b> | HOST<br><b>E.coli</b> | REACTIVITY<br><b>Rattus norvegicus (Rat)</b> | APPLICATIONS<br><b>SDS-Page, Western Blot</b> |
|------------------------------|-----------------------|----------------------------------------------|-----------------------------------------------|

## PRODUCT SYNONYMS

Myosin Heavy Chain 6; Cardiac Muscle; Alpha (MYH6); Recombinant Myosin Heavy Chain 6; MYH6 recombinant protein

## PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Reactivity                                           | Rattus norvegicus (Rat)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity/Purification                                  | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form/Format                                          | PBS, pH7.4, containing 0.05% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Concentration                                        | Original Concentration: 200ug/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Applicable Applications for MYH6 recombinant protein | Positive Control, Immunogen, SDS-PAGE, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Application Notes                                    | (May be suitable for use in other assays to be determined by the end user.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Source                                               | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Residues                                             | Gln1747~Glu1938                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tags                                                 | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Subcellular Location                                 | Cytoplasm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Traits                                               | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Predicted isoelectric point                          | 6.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Phenomenon explanation                               | <p>The possible reasons that the actual band size differs from the predicted are as follows:</p> <ol style="list-style-type: none"> <li>1. Splice variants: Alternative splicing may create different sized proteins from the same gene.</li> <li>2. Relative charge: The composition of amino acids may affects the charge of the protein.</li> <li>3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.</li> <li>4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.</li> <li>5. Polymerization of the target protein: Dimerization, multimerization etc.</li> </ol> |
| Usage                                                | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage                              | <p><b>Storage:</b><br/>           Avoid repeated freeze/thaw cycles.<br/>           Store at 2-8 degree C for one month.<br/>           Aliquot and store at -80 degree C for 12 months.</p> <p><b>Stability Test:</b><br/>           The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.</p>                                                                                      |

IMAGES



SDS-PAGE



Gene Sequencing (Extract)



Sequence Information

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 127741                                                                                                                                                                                                                                                            |
| NCBI GeneID                      | 29556                                                                                                                                                                                                                                                             |
| Molecular Weight                 | Predicted Molecular Mass: 23.7kDa<br>Accurate Molecular Mass: 27kDa as determined by SDS-PAGE reducing conditions.                                                                                                                                                |
| NCBI Official Full Name          | Myosin-6                                                                                                                                                                                                                                                          |
| NCBI Official Synonym Full Names | myosin, heavy chain 6, cardiac muscle, alpha                                                                                                                                                                                                                      |
| NCBI Official Symbol             | Myh6                                                                                                                                                                                                                                                              |
| NCBI Official Synonym Symbols    | Myhca                                                                                                                                                                                                                                                             |
| NCBI Protein Information         | myosin-6; myHC-alpha; myosin heavy chain 6; myosin heavy chain, cardiac muscle alpha isoform; myosin, heavy polypeptide 6, cardiac muscle, alpha; myosin heavy chain polypeptide 6 cardiac muscle adult; myosin heavy chain, polypeptide 6, cardiac muscle, alpha |
| UniProt Protein Name             | Myosin-6                                                                                                                                                                                                                                                          |
| UniProt Gene Name                | <b>Myh6</b>                                                                                                                                                                                                                                                       |
| UniProt Synonym Gene Names       | MyHC-alpha                                                                                                                                                                                                                                                        |
| UniProt Entry Name               | MYH6_RAT                                                                                                                                                                                                                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/myh6-recombinant-protein-e-coli-positive-control-immunogen-sds-page-wb-western-blot/20287>