

# Recombinant Full Length Human ACTB Protein, C-Flag-tagged

**Cat. No.** ACTB-28HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human ACTB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins that are ubiquitously expressed. Mutations in this gene cause Baraitser-Winter syndrome 1, which is characterized by intellectual disability with a distinctive facial appearance in human patients. Numerous pseudogenes of this gene have been identified throughout the human genome. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 41.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MDDDIAALVVDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGVMMVGMGQKDSYV<br>GDEAQSKRGILTLYKYP IEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLN<br>PKANREKMTQIMFETFNTPAMYVAIQAVL SLYASGRTTGIVMDSGDGVTHTVPIYEG<br>YALPHAILRLDLAGRDLTDYLMKILTERGYSFTTTAEREIVR DIKEKLCYVALDFEQEM<br>ATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFN SIMKC<br>DVIDRKDLYANTVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIPPERKYSVWIGGS                                                                                                                                                                                                                    |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | <p>ILASLS</p> <p>TFQQMWISKQEYDESGPSIVHRKCFTRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                                                                                                                                                                                      |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                     |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                                                                                                                                                                                                          |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                                                                                                                                                                                                                 |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                                                                                                                                                                                                  |
| <b>Protein Families</b> | ES Cell Differentiation/IPS                                                                                                                                                                                                                                                                                                       |
| <b>Protein Pathways</b> | Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Tight junction, Vibrio cholerae infection, Viral myocarditis |
| <b>Full Length</b>      | Full L.                                                                                                                                                                                                                                                                                                                           |

## GENE INFORMATION

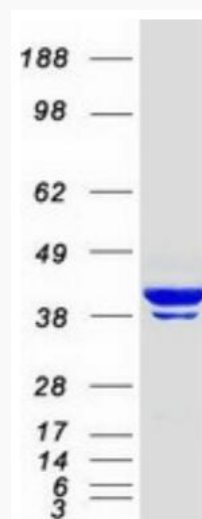
|                        |                                          |
|------------------------|------------------------------------------|
| <b>Gene Name</b>       | ACTB actin beta [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | ACTB                                     |
| <b>Synonyms</b>        | BRWS1; PS1TP5BP1                         |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                |             |
|----------------|-------------|
| Gene ID        | 60          |
| mRNA Refseq    | NM_001101.5 |
| Protein Refseq | NP_001092.1 |
| MIM            | 102630      |
| UniProt ID     | P60709      |



Coomassie blue staining of purified ACTB protein.