

## Product datasheet for **TP303643**

### beta Actin (ACTB) (NM\_001101) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human actin, beta (ACTB), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203643 representing NM_001101 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MDDDIAALVDNGSGMCKAGFAGDDAPRAVFPVGRPRHQGVMVGMGQKDSVVGDEAQSKRGILTLK YP IEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVL SLYASGRRTGIVMDSGDGVHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTTAEREIVR DIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFN SIMKCDVDIRKDLANTVLSGGTTPYMPIADRMQKEITALAPSTMKIKIIPPERKYSVWIGGSILASLS TFQQMWISKQEYDESGPSIVHRKCF  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	41.6 kDa
Concentration:	>0.1 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_001092</a></u>



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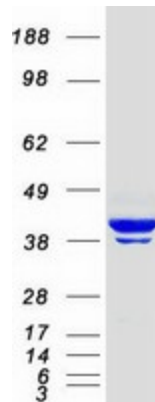
Locus ID: 60  
UniProt ID: [P60709](#)  
RefSeq Size: 1793  
Cytogenetics: 7p22.1  
RefSeq ORF: 1125  
Synonyms: BRWS1; PS1TP5BP1

**Summary:** 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. [provided by RefSeq, Aug 2017]

**Protein Families:** ES Cell Differentiation/IPS

**Protein Pathways:** 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

### Product images:



Coomassie blue staining of purified ACTB protein (Cat# TP303643). The protein was produced from HEK293T cells transfected with ACTB cDNA clone (Cat# [RC203643]) using MegaTran 2.0 (Cat# [TT210002]).