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## Datasheet for ABIN7319212 **beta Actin Protein (His tag)**



Overview	
Quantity:	50 µg
Target:	beta Actin (ACTB)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This beta Actin protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human β-Actin/Beta Actin Protein (His Tag)
Sequence:	Asp2-Phe375
Characteristics:	Recombinant Human beta-Actin is produced by our E.coli expression system and the target gene encoding Asp2-Phe375 is expressed with a 6His tag at the C-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per $\mu$ g as determined by the LAL method.
Target Details	

Target:	beta Actin (ACTB)
Alternative Name:	beta-Actin/Beta Actin (ACTB Products)
Background:	Background: Actins are ubiquitous globular and highly conserved proteins that are involved in various types of cell motility, structure, and integrity. Three main groups of actin isoforms,
	alpha, beta and gamma have been identified. The alpha actins are found in muscle tissues and

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## Target Details

	are a major constituent of the contractile apparatus. The beta and gamma actins co-exist in
	most cell types as components of the cytoskeleton, and as mediators of internal cell motility.
	ACTB is a major constituent of the contractile apparatus and one of the two nonmuscle
	cytoskeletal actins. Polymerization of globular actin (G-actin) leads to a structural filament (F-
	actin) in the form of a two-stranded helix. Each actin can bind to 4 others.
	Synonym: Actin Cytoplasmic 1, Beta-Actin, ACTB
Molecular Weight:	42.8 kDa
UniProt:	P60709
Pathways:	Myometrial Relaxation and Contraction, Cell-Cell Junction Organization, Maintenance of Protein
	Location, Phototransduction
Application Details	
1.1	
Postriotions:	For Desearch Lice only
Restrictions:	For Research Use only
Restrictions: Handling	For Research Use only
	For Research Use only Frozen, Liquid
Handling	
Handling Format:	Frozen, Liquid