

For Research Use Only

# CoraLite® Plus 647-conjugated Beta Actin Monoclonal antibody



Catalog Number: CL647-66009

Featured Product

## Basic Information

Catalog Number: CL647-66009	GenBank Accession Number: NM_001101	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by 60 Nanodrop;	GeneID (NCBI): 60	CloneNo.: 2D4H5
Source: Mouse	Full Name: actin, beta	Excitation/Emission maxima wavelengths: 650 nm / 665 nm
Isotype: IgG2b	Calculated MW: 42 kDa	
	Observed MW: 42 kDa	

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
human, mouse, rat, hamster, zebrafish, monkey, dog

## Background Information

Actins are highly conserved globular proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. At least six isoforms of actins are known in mammals and other vertebrates: alpha (ACTC1, cardiac muscle 1), alpha 1 (ACTA1, skeletal muscle) and 2 (ACTA2, aortic smooth muscle), beta (ACTB), gamma 1 (ACTG1) and 2 (ACTG2, enteric smooth muscle). Beta and gamma 1 are two non-muscle actin proteins. Most actins consist of 376aa, while ACTG2 (rich in muscles) has 375aa and ACTG1(found in non-muscle cells) has only 374aa. Beta actin has been widely used as the internal control in RT-PCR and Western Blotting as a 42-kDa protein. However, the 41 kDa cleaved fragment of beta actin can be generated during apoptosis process. This antibody can recognize all the actins. The isotype of this antibody is IgG2b. For murine tissue sample, conjugated antibody (HRP-66009) or rabbit antibody (20536-1-AP) is preferable.

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

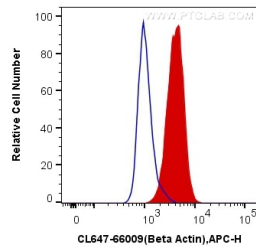
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
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W: [ptglab.com](http://ptglab.com)

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## Selected Validation Data



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.8 ug CoraLite® Plus 647 Anti-Human Beta Actin (CL647-66009, Clone:2D4H5) (red), or 0.8 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).