

For Research Use Only

CoraLite®555-conjugated Beta Actin Monoclonal antibody



Catalog Number: CL555-66009

Featured Product

Basic Information

Catalog Number: CL555-66009	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	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2b	Calculated MW: 42 kDa	Excitation/Emission maxima wavelengths: 555 nm / 570 nm
	Observed MW: 42 kDa	

Applications

Tested Applications: FC (Intra), IF	Positive Controls: IF : A549 cells,
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

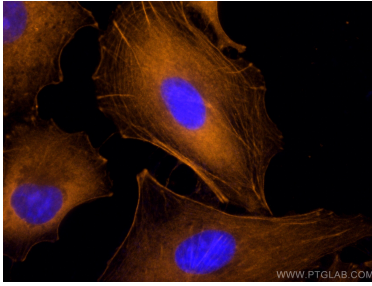
Storage:
Store at -20°C. Avoid exposure to light.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

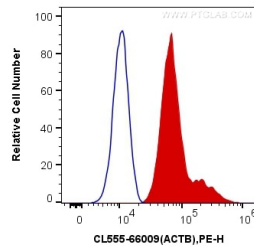
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using Coralite®555 Beta Actin antibody (CL555-66009, Clone: 2D4H5) at dilution of 1:100.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Coralite®555 Anti-Human Beta Actin (CL555-66009, Clone:2D4H5) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).