

# CoraLite®594-conjugated HSPB3 Monoclonal antibody

Catalog Number: **CL594-67890**

## Basic Information

**Catalog Number:**

CL594-67890

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2b

**Immunogen Catalog Number:**

AG26940

**GenBank Accession Number:**

BC126272

**GeneID (NCBI):**

8988

**UNIPROT ID:**

Q12988

**Full Name:**

heat shock 27kDa protein 3

**Calculated MW:**

150 aa, 17 kDa

**Observed MW:**

20 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

2A10B5

**Excitation/Emission maxima  
wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

FC (Intra)

**Species Specificity:**

Human, rabbit, mouse, rat

## Background Information

Heat shock protein family B (small) member 3 (HSPB3) is the third member of the sHSP family in human and is mainly expressed in skeletal and smooth muscles, and can associate with HSPB2, which is another sHSP prominently expressed in cardiac and skeletal muscles. HSPB3 is involved in several cellular functions such as cell signaling, differentiation, and apoptosis, and mutations of HSPB3 are associated with neuromuscular diseases, such as axonal Charcot - Marie - Tooth disease (PMID: 31709619) (PMID: 32093037). The molecular weight of HSPB3 is about 17 kDa.

## Storage

**Storage:**

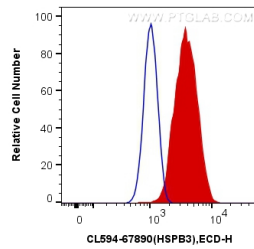
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug CoraLite®594 Anti-Human HSPB3 (CL594-67890, Clone:2A10B5) (red), or 0.2 ug Mouse IgG2b Isotype Control (CL594-66360-3, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).