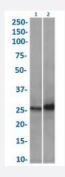


RecomAb™

# HSPB1 recombinant monoclonal antibody, clone SAIC-23B-22

Catalog # RAB03541 Size 200 ug

# **Applications**

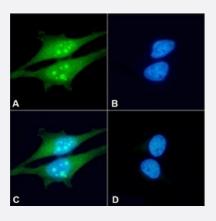


### Western Blot

Western blot analysis of Lane 1: human heart (0.1 ug/mL) and Lane 2: human placenta (0.3 ug/mL) with HSPB1 recombinant monoclonal antibody, clone SAIC-23B-22 (Cat # RAB03541).

Western Blot analysis the tissue lysates (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots probed with the chimeric r version of RAB03541 before detection using an anti-rondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.

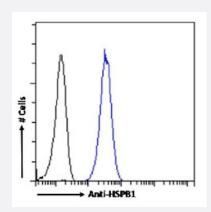
### **Immunofluorescence**



Immunofluorescent staining of Hela cells with HSPB1 recombinant monoclonal antibody, clone SAIC-23B-22 (Cat # RAB03541).

Immunofluorescence analysis of paraformaldehyde fixed Hela cells permeabilized with 0.15% Triton stained with the chimeric r version of RAB03541 at a dilution of 1:100 for 1h followed by Alexa Fluor® 488 secondary antibody at a dilution of 1:1000, showing nucleoli- nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). The isotype control was an unknown specificity antibody followed by Alexa Fluor® 488 secondary antibody.

- (A) RAB03541
- (B) DAPI
- (C) Merged channels
- (D) Isotype control



## Flow Cytometry

Flow cytometric analysis of Hela cells with HSPB1 recombinant monoclonal antibody, clone SAIC-23B-22 (Cat # RAB03541).

Paraformaldehyde fixed Hela cells permeabilized with 0.5% Triton were stained with were stained with anti-unknown specificity antibody (isotype control-black line) or the r version of RAB03541 (blue line) at a dilution of 1:100 for 1h at RT. After washing the bound antibody was detected using a goat anti-r AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

Specification	
Product Description	Rabbit recombinant monoclonal antibody raised against human HSPB1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against peptide "DGVVEITGK" derived from Heat shock protein beta-1.
Reactivity	Human
Form	Liquid
Isotype	lgG
Recommend Usage	Flow Cytometry Immunofluorescence Immuno-MRM (multiple reaction monitoring) Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS with 0.02% Proclin 300
Storage Instruction	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Aliquot to avoid repeated freezing and thawing.

# **Applications**

## **Product Information**



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Immuno-MRM (multiple reaction monitoring)

Gene Info — HSPB1	
Entrez GenelD	<u>3315</u>
Gene Name	HSPB1
Gene Alias	CMT2F, DKFZp586P1322, HMN2B, HS.76067, HSP27, HSP28, Hsp25, SRP27
Gene Description	heat shock 27kDa protein 1
Omim ID	<u>602195</u> <u>606595</u> <u>608634</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The protein encoded by this gene is induced by environmental stress and developmental changes . The encoded protein is involved in stress resistance and actin organization and translocates fro m the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot -Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN). [provide d by RefSeq



## **Product Information**

**Other Designations** 

OTTHUMP00000024846|estrogen-regulated 24 kDa protein|heat shock 27kD protein 1|heat shock protein beta-1|stress-responsive protein 27

# Pathway

- MAPK signaling pathway
- VEGF signaling pathway

## Disease

- Adenocarcinoma
- Carcinoma
- Charcot-Marie-Tooth Disease
- Diabetic Nephropathies
- Genetic Predisposition to Disease
- Lung Neoplasms
- Small Cell Lung Carcinoma