

Product datasheet

Anti-Hsc70 antibody [1B5] (DyLight® 488) ab115647

1 Image

Overview

<b>Product name</b>	Anti-Hsc70 antibody [1B5] (DyLight® 488)
<b>Description</b>	Rat monoclonal [1B5] to Hsc70 (DyLight® 488)
<b>Host species</b>	Rat
<b>Conjugation</b>	DyLight® 488. Ex: 493nm, Em: 518nm
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Sheep, Rabbit, Chicken, Guinea pig, Hamster, Cow, Dog, Human, Pig, Monkey
<b>Immunogen</b>	Native Hamster Hsc70 protein.
<b>Positive control</b>	Jurkat cells.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.09% Sodium azide Constituent: 99% PBS
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	1B5
<b>Isotype</b>	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab115647** in the following tested applications.

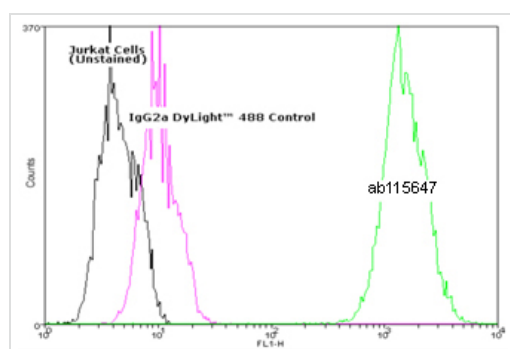
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use a concentration of 50 µg/ml.

## Target

<b>Function</b>	Acts as a repressor of transcriptional activation. Inhibits the transcriptional coactivator activity of CITED1 on Smad-mediated transcription. Chaperone. Isoform 2 may function as an endogenous inhibitory regulator of HSC70 by competing the co-chaperones.
<b>Tissue specificity</b>	Ubiquitous.
<b>Sequence similarities</b>	Belongs to the heat shock protein 70 family.
<b>Domain</b>	The N-terminal 1-386 residues constitute the ATPase domain, while residues 387-646 form the peptide-binding domain.
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR. ISGylated.
<b>Cellular localization</b>	Cytoplasm. Melanosome. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Translocates rapidly from the cytoplasm to the nuclei, and especially to the nucleoli, upon heat shock. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

## Images



ab115647 at 50µg/ml staining Hsc70 in  $10^6$  Jurkat cells by Flow cytometry (shown in Green).  
Grey: unstained; Pink: isotype control.

Flow Cytometry - Anti-Hsc70 antibody [1B5]  
(DyLight® 488) (ab115647)

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