

Product datasheet

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

1 Image

Overview

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

Properties

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

Applications

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

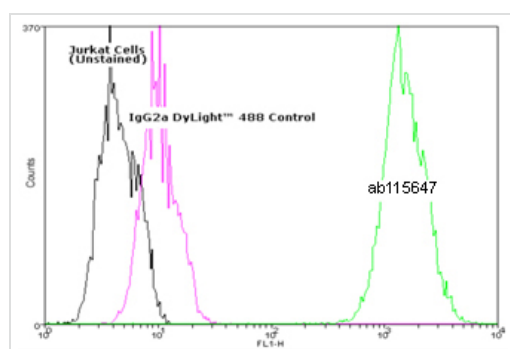
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Target

Function	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.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the heat shock protein 70 family.
Domain	The N-terminal 1-386 residues constitute the ATPase domain, while residues 387-646 form the peptide-binding domain.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR. ISGylated.
Cellular localization	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



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

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

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