

## Anti-Human Hsp70 DyLight® 550 conjugated HSPA1A Antibody(monoclonal, 3H5)

Catalog Number: M00949-Dyl550

### About HSPA1A

HSPA1 (heat shock 70kDa protein 1A) also known as HSP70-1, HSPA1A, HSP70-1A, HSP72 or HSP70I, is a protein that in humans is encoded by the HSPA1A gene. This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. The HSPA1A gene encodes a predicted 641-amino acid protein. The HSPA1 gene is mapped on 6p21.33. Shimizu et al. (1999) found that peripheral blood mononuclear cells of 18 major depression patients expressed a short HSPA1A transcript that utilized exon 1 rather than exon 2, which is found in the more common HSPA1A transcript. No protein was associated with expression of this short HSPA1A mRNA, possibly due to lack of a TATA box or loss of internal ribosome binding sites. Treatment with BGP-15, a pharmacologic inducer of Hsp72 that can protect against obesity-induced insulin resistance, improved muscular architecture, strength, and contractile function in severely affected diaphragm muscles in mdx dystrophic mice.

### Overview

|                      |                                                                                                                                                                                        |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Human Hsp70 DyLight® 550 conjugated HSPA1A Antibody(monoclonal, 3H5)                                                                                                              |
| Reactive Species     | Human                                                                                                                                                                                  |
| Description          | Boster Bio Anti-Human Hsp70 DyLight® 550 conjugated HSPA1A Antibody (monoclonal, 3H5) catalog # M00949-Dyl550. Tested in Flow Cytometry applications. This antibody reacts with Human. |
| Conjugate            | DyLight®550                                                                                                                                                                            |
| Application          | Flow Cytometry                                                                                                                                                                         |
| Clonality            | Monoclonal 3H5                                                                                                                                                                         |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .                                                                           |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.                                                                                   |
| Host                 | Mouse                                                                                                                                                                                  |
| Uniprot ID           | P0DMV8                                                                                                                                                                                 |

### Technical Details

|                            |                                                                                                                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                  | A synthetic peptide corresponding to a sequence at the C-terminus of human Hsp70, different from the related mouse sequence by five amino acids, and from the related rat sequence by three amino acids. |
| Predicted Reactive Species | Human                                                                                                                                                                                                    |
| Cross Reactivity           | No cross-reactivity with other proteins.                                                                                                                                                                 |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Isotype             | Mouse IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Form                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Concentration       | 0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.                                                                                                                                                                                                                                                                                                                                                        |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry, 1-3ug/1x10<sup>6</sup> cells</p> |

## Anti-Human Hsp70 DyLight® 550 conjugated HSPA1A Antibody(monoclonal, 3H5) (M00949-Dyl550) Images



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