

## Basic Information

Product Name	Anti-HSP70 Antibody (Clone#DGE-8)	
Gene Name	HSPA1A	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, FCM	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
Immunogen	A synthesized peptide derived from human Hsp70	
Concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	70 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	Flow Cytometry (FCM):	1:50

## Storage

12 months from date of receipt, -20°C as supplied.

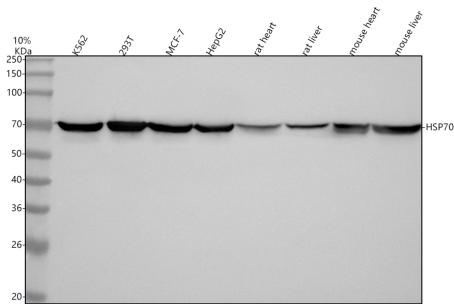
## Background Information

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.

## Reference

Anti-HSP70 Antibody (Clone#DGE-8)被引用在5文献中。

## Selected Validation Data



Western blot analysis of anti-HSP70 antibody (BM4335). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human K562 whole cell lysates,

Lane 2: human 293T whole cell lysates,

Lane 3: human MCF-7 whole cell lysates,

Lane 4: human HepG2 whole cell lysates,

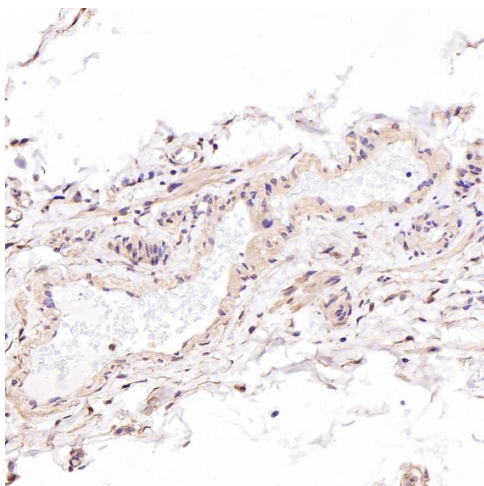
Lane 5: rat heart tissue lysates,

Lane 6: rat liver tissue lysates,

Lane 7: mouse heart tissue lysates,

Lane 8: mouse liver tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-HSP70 antigen affinity purified monoclonal antibody (BM4335) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HSP70 at approximately 70 kDa. The expected band size for HSP70 is at 70 kDa.



Immunohistochemical analysis of paraffin-embedded Human testis cancer, using HSP70 Antibody.

Product datasheet

**Anti-HSP70 Antibody (Clone#DGE-8)**

**Catalog Number: BM4335**

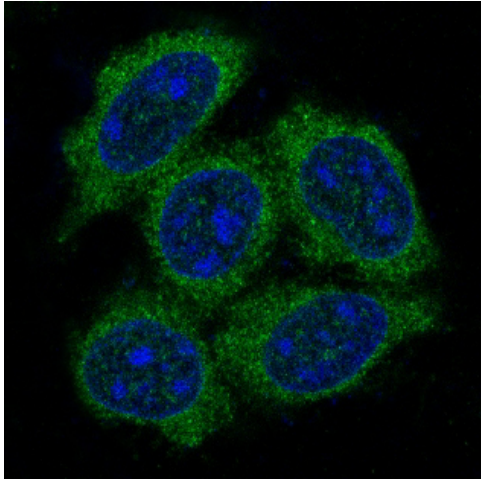


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Immunofluorescent analysis of Hela cells, using HSP70 Antibody.