

Technical Data Sheet

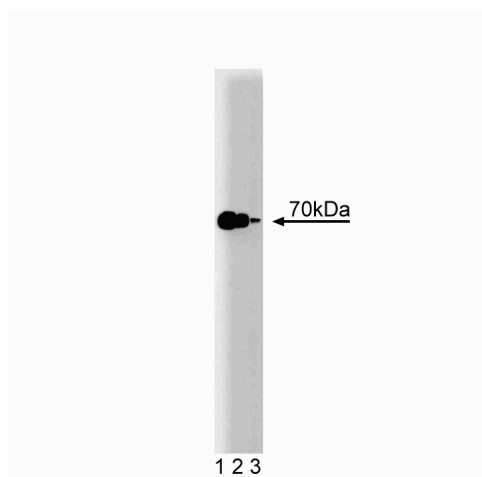
Purified Mouse Anti-Hsp70**Product Information**

Material Number:	610607
Size:	50 µg
Concentration:	250 µg/ml
Clone:	7/Hsp70
Immunogen:	Human Hsp70 aa. 429-640
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Chicken, Dog
Target MW:	70 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

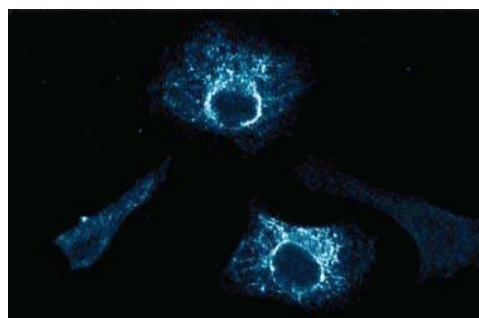
Description

Hsp70 is a member of the heat shock or stress-induced genes whose expression is regulated at both transcriptional and translational levels. Elevated temperatures induce a transient resistance to subsequent heat exposure in various types of cells. Although Hsp70 protein is constitutively expressed at low levels, its expression abundantly increases in response to heat stress. During such stress, Hsp70 leaves the cytoplasm and nucleoplasm and rapidly accumulates in the nucleolus. Removal of the stress results in the redistribution of Hsp70 to its original locations.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of Hsp70 on a HeLa cell lysate (Human cervical epitheloid carcinoma; ATCC CCL-2.2). Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the anti-Hsp70 antibody.



Immunofluorescence staining of HeLa cells (Human cervical epitheloid carcinoma; ATCC CCL-2.2).

Preparation and Storage

Store undiluted at -20° C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Tested During Development
Immunohistochemistry	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Hunt C, Morimoto RI. Conserved features of eukaryotic hsp70 genes revealed by comparison with the nucleotide sequence of human hsp70. *Proc Natl Acad Sci U S A*. 1985; 82(19):6455-6459.(Biology)
Suhr ST, Senut MC, Whitelegge JP, Faull KF, Cuizon DB, Gage FH. Identities of sequestered proteins in aggregates from cells with induced polyglutamine expression. *J Cell Biol*. 2001; 153(2):283-294.(Biology: Western blot)