

Technical Data Sheet

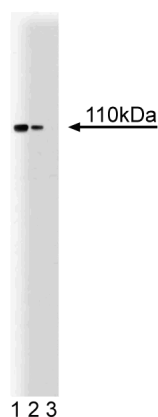
Purified Mouse Anti-Hsp110**Product Information**

Material Number:	610511
Alternate Name:	Heat Shock Protein-110
Size:	150 µg
Concentration:	250 µg/ml
Clone:	21/Hsp110
Immunogen:	Hamster Hsp110 aa. 703-858
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat Tested in Development: Human, Mouse, Dog
Target MW:	110 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

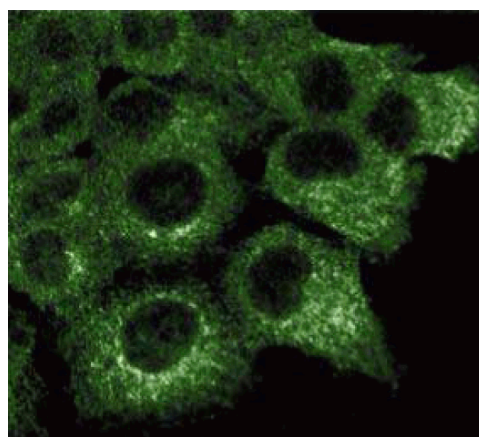
Description

With the exception of Hsp110, the stress or heat shock proteins have been thoroughly characterized. Hsp110 has been reported to be expressed in most tissues. Like other stress proteins, Hsp110 is induced by heat shock and its induction is associated with thermotolerance. The sequence of Hsp110 reportedly bears similarity to several Hsp70-related proteins that have been termed Hsp110/SSE. The carboxy-terminal domains of these proteins and Hsp110 contain a putative peptide-binding site. These proteins also contain six highly conserved regions found in the same progression, as well as five conserved ATP-binding motifs.

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 Hsp110 on a rat cerebrum lysate. Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10,000 dilution of the mouse anti-Hsp110 antibody.



Immunofluorescence staining of A431 cells (Human epithelial carcinoma; ATCC CRL-1555).

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
Immunohistochemistry	Tested During Development
Immunoprecipitation	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharming/en/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611463	Rat Cerebrum Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs (Multiple Adsorption)	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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.

References

Lee-Yoon D, Easton D, Murawski M, Burd R, Subjeck JR. Identification of a major subfamily of large hsp70-like proteins through the cloning of the mammalian 110-kDa heat shock protein. *J Biol Chem.* 1995; 270(26):15725-15733.(Biology)
Moore JK, Scheinman RI, Bellgrau D. The identification of a novel T cell activation state controlled by a diabetogenic gene. *J Immunol.* 2001; 166(1):241-248. (Biology: Western blot)

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