

Technical Data Sheet

Purified Mouse Anti-Hsp90**Product Information**

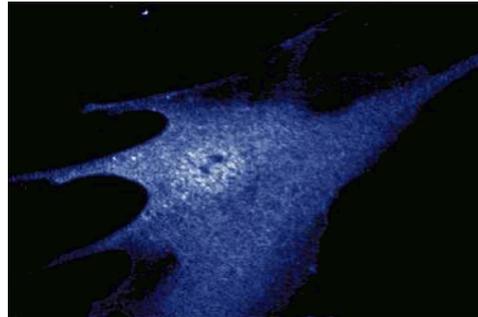
Material Number:	610418
Alternate Name:	Heat Shock Protein-90
Size:	50 µg
Concentration:	250 µg/ml
Clone:	68/Hsp90
Immunogen:	Human Hsp90 aa. 586-732
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Dog, Chicken
Target MW:	90 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The 90 kDa heat shock protein (Hsp90), a highly conserved stress-induced protein, is abundantly expressed in most tissues under nonstress conditions and is required for eukaryotic cell viability. Hsp90 interacts with a number of signaling molecules, other heat shock proteins, and cytoskeletal proteins. However, the function of Hsp90 in these complexes remains unclear. It is thought that Hsp90 plays a common role in a number of diverse signaling systems due to its physical association with v-Src family tyrosine kinases, steroid hormone receptors, the Raf serine/threonine kinase, the basic-helix-loop-helix dioxin receptor, and the βγ subunits of G proteins.



Western blot analysis of Hsp90 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 mouse anti-Hsp90 antibody.



Immunofluorescence staining of WI-38 cells (Human lung fibroblasts; ATCC CCL-75).

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
Immunoprecipitation	Tested During Development
Immunofluorescence	Tested During Development
Immunohistochemistry	Not Recommended

Recommended Assay Procedure:

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

Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	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/pharmingen/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

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- Miyamoto A, Nakayama K, Imaki H. Increased proliferation of B cells and auto-immunity in mice lacking protein kinase Cdelta. *Nature.* 2002; 416(6883):865-869. (Biology: Western blot)
- Murata T, Sato K, Hori M, Ozaki H, Karaki H. Decreased endothelial nitric-oxide synthase (eNOS) activity resulting from abnormal interaction between eNOS and its regulatory proteins in hypoxia-induced pulmonary hypertension. *J Biol Chem.* 2002; 277(46):44085-44092. (Biology: Western blot)
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- Rebbe NF, Ware J, Bertina RM, Modrich P, Stafford DW. Nucleotide sequence of a cDNA for a member of the human 90-kDa heat-shock protein family. *Gene.* 1987; 53(2-3):235-245. (Biology)