HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody

Mouse Monoclonal Antibody [Clone HSPD1/875]

Catalog No	Format	Size
3329-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3329-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3329-MSM5-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

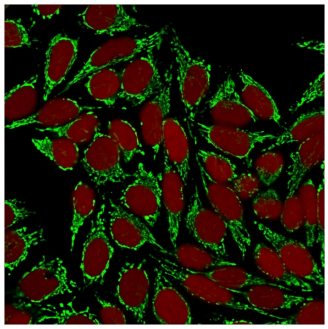
Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

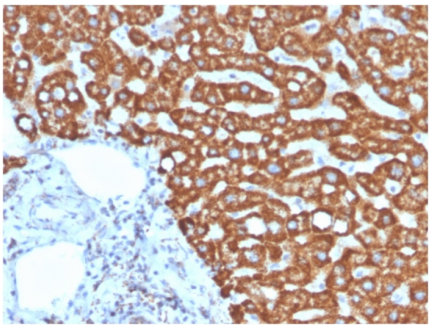
Clone	HSPD1/875
Gene Name	HSPD1
Immunogen	Recombinant full-length human HSPD1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	60kDa
Cellular Localization	Mitochondrion matrix
Species Reactivity	Chicken, Guinea Pig, Hamster, Human, Monkey, Mouse, Rat
Positive Control	HeLa or HepG2 cells. Synovial biopsies from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for hsp60. Breast carcinoma.

**Optimal dilution for a specific application should be determined.*

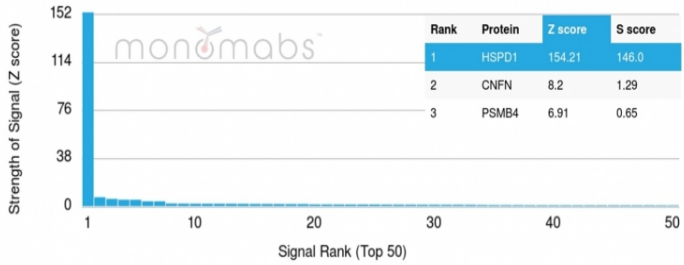
Product Images for HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody



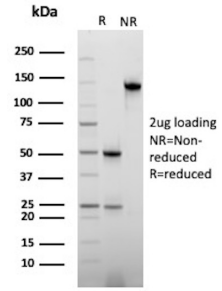
Confocal immunofluorescence image of MeOH-fixed Hela cells using Heat Shock Protein 60 Mouse Monoclonal Antibody (HSPD1/875) followed by goat anti-mouse IgG-CF488 (green).Nuclei stained with RedDot.



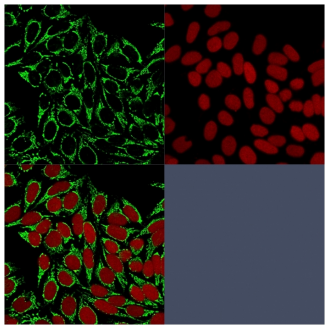
Formalin-fixed, paraffin-embedded human liver in colon stained with HeatShock Protein 60 Mouse Monoclonal Antibody (HSPD1/875).



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing HSP60-Monospecific Mouse Monoclonal Antibody (HSPD1/780) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE Analysis of Purified HSP60 Mouse Monoclonal Antibody (HSPD1/875). Confirmation of Purity and Integrity of Antibody.



Confocal immunofluorescence image of MeOH-fixed Hela cells using Heat Shock Protein 60 Mouse Monoclonal Antibody(HSPD1/875) followed by goat anti-mouse IgG-CF488 (green).Nuclei stained with RedDot.

Specificity & Comments

Recognizes a 60kDa protein, identified as the heat shock protein 60 (hsp60). A wide variety of environmental and pathophysiological stressful conditions trigger the synthesis of a family of proteins known as heat shock proteins (hsp s), more appropriately called as stress response proteins (srp s). hsp60 is a potential antigen in a number of autoimmune diseases. In human arthritis and in experimentally induced arthritis in animals, disease development coincides with the development of immune reactivity directed against not only bacterial hsp60, but also against its mammalian homolog.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. ,Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Mitochondria Marker, Ovarian Cancer, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.