

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

Mouse Monoclonal Antibody [Clone HSPD1/780]

Catalog No	Format	Size
3329-MSM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3329-MSM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3329-MSM4-P1ABX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

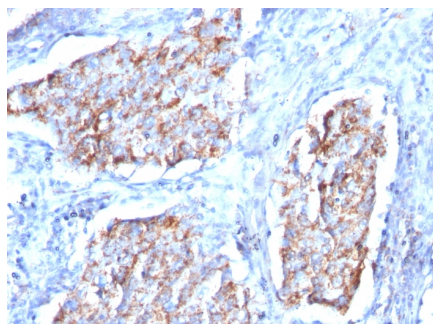
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling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

Product Details

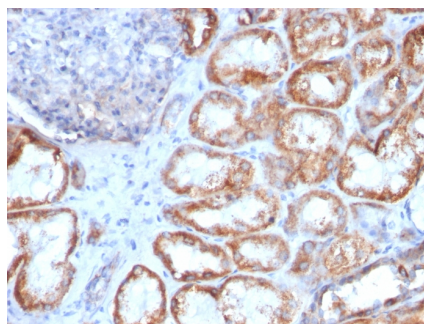
Clone	HSPD1/780
Gene Name	HSPD1
Immunogen	Recombinant human HSPD1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	60kDa
Cellular Localization	Mitochondrion matrix
Species Reactivity	Chicken, Cow, Dog, Hamster, Human, Monkey, Mouse, Pig, Rabbit, Rat, Sheep
Positive Control	HeLa or HepG2 cells. Breast carcinoma.

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

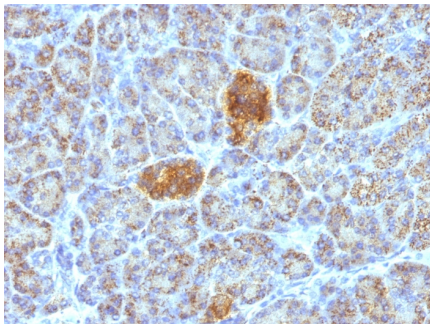
Product Images for HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody



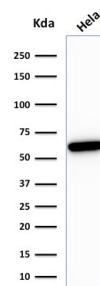
Formalin-fixed, paraffin-embedded human Lung Carcinoma stained with HSP60 Mouse Monoclonal Antibody (HSPD1/780)



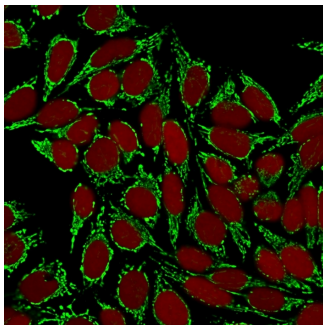
Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with HSP60-Monospecific Mouse Monoclonal Antibody (HSPD1/780).



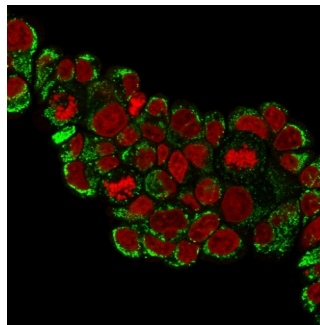
Formalin-fixed, paraffin-embedded human Pancreas stained with HSP60-Monospecific Mouse Monoclonal Antibody (HSPD1/780).



Western Blot analysis of HeLa cell lysate using HSP60-Monospecific Mouse Monoclonal Antibody (HSPD1/780)



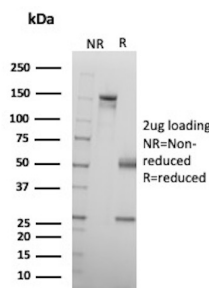
Immunofluorescent staining of MeOH-fixed HeLa cells. HSP60-Monospecific Monoclonal Antibody (HSPD1/780) followed by goat anti-Mouse IgG-CF488 (green). Nuclei are labeled with Reddot (red).



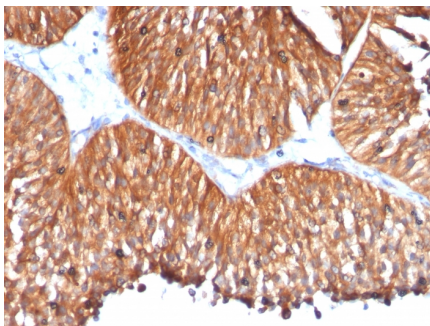
Immunofluorescent staining of PFA-fixed MCF-7 cells. HSP60-Monospecific Monoclonal Antibody (HSPD1/780) followed by goat anti-Mouse IgG-CF488 (Green). Nuclei are labeled with Reddot (red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using 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 HuProt™ 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 HuProt™ 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 be 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 (HSPD1/780). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with HSP60 Mouse Monoclonal Antibody (HSPD1/780)

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 with 0.05% 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, Hypoxia, 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.