

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

Mouse Monoclonal Antibody [Clone CPTC-HSPD1-1]

Catalog No	Format	Size
3329-MSM8-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3329-MSM8-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3329-MSM8-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

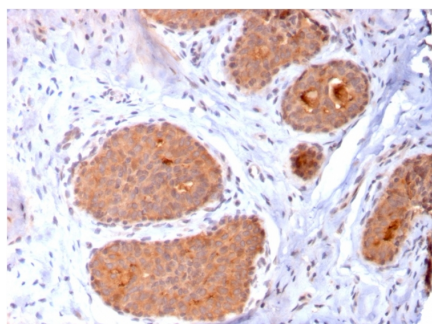
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling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

Product Details

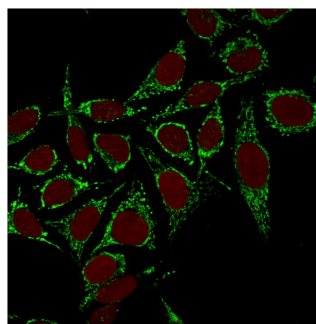
Clone	CPTC-HSPD1-1
Gene Name	HSPD1
Immunogen	Recombinant full-lengthhuman HSPD1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	60kDa
Cellular Localization	Mitochondrion matrix
Species Reactivity	Human
Positive Control	HeP2, PC3 or HeLa cells. Human breast or colon carcinoma

*Optimal dilution for a specific application should be determined.

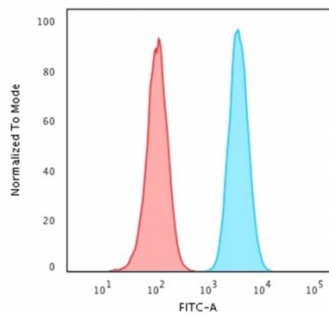
Product Images for HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody



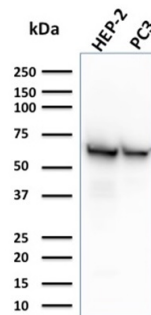
Formalin-fixed, paraffin-embedded human breast carcinoma stained with HSP60 Mouse Monoclonal Antibody (CPTC-HSPD1-1).



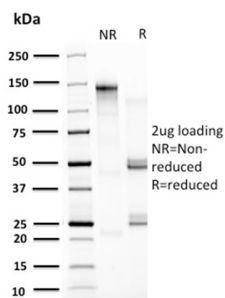
Immunofluorescence Analysis of human MCF-7 cells labeling HSP60 with Heat Shock Protein 60 Mouse Monoclonal Antibody (CPTC-HSPD1-1) followed by goat anti-mouse IgG-CF488 (green). Nuclei stained withRedDot.



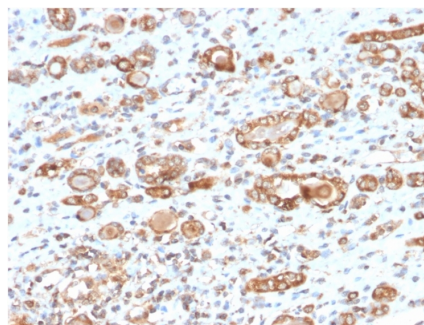
Flow Cytometric Analysis of PFA-fixed HeLa cells labeling HSP60 with HSP60 Mouse Monoclonal Antibody (CPTC-HSPD1-1) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).



Western Blot Analysis of Hep2 and PC3 cell lysates using HSP60 Mouse Monoclonal Antibody (CPTC-HSPD1-1).



SDS-PAGE Analysis Purified HSP60 Mouse Monoclonal Antibody (CPTC-HSPD1-1). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human renal cell carcinoma stained with HSP60 Mouse Monoclonal Antibody (CPTC-HSPD1-1).

Specificity & Comments

The heat shock proteins (HSPs) comprise a group of highly conserved, abundantly expressed proteins with diverse functions, including the assembly and sequestering of multiprotein complexes, transportation of nascent polypeptide chains across cellular membranes, and the regulation of protein folding. The mitochondrial and cytosolic localization of HSP60, combined with its binding and catalysis of folding of newly synthesized proteins destined for the mitochondrial matrix, classify this protein as a molecular chaperone. An additional role of HSP 60 is to act as a cell surface marker for T cell recognition, as well as being involved in a danger signal cascade immune response. HSP60 has been shown to influence apoptosis in tumor cells, and changes in its expression level may serve as a biomarker, as down-regulated HSP60 expression indicates a poor prognosis as well as a risk of tumor infiltration development, especially with regard to urothelial carcinomas. In ovarian cancer, decreased expression of HSP60 correlates with aggressive tumor types, while overexpression is correlated with a better patient prognosis.

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.

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 & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Mitochondria Marker, Ovarian Cancer, Transcription Factors