

Product Datasheet

HSP60 Antibody / HSPD1 (orb749575)

Catalog Number	orb749575
Category	Antibodies
Description	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 (hsps), more appropriately called as stress response proteins (srps). 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.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
Purification	Protein G affinity chromatography
Immunogen	Recombinant human HSPD1 protein was used as the immunogen for the HSP60 antibody.
UniProt ID	P10809
Tested applications	IF, IHC-P, WB

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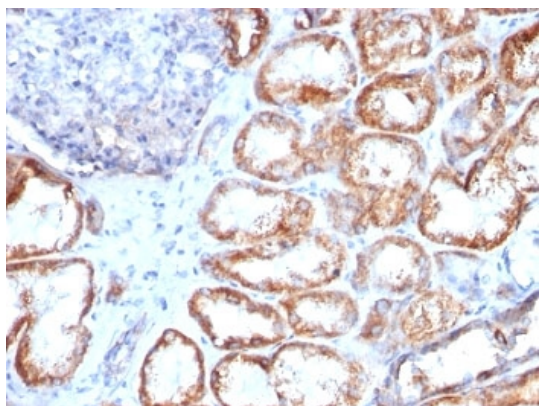
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Dilution range	Immunofluorescence: 1-2ug/ml,Western blot: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Application notes	Optimal dilution of the HSP60 antibody should be determined by the researcher.1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Antibody Type	Primary Antibody
Clone Number	HSPD1/780
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC: Formalin-fixed, paraffin-embedded human renal cell carcinoma stained with HSP60 antibody (clone HSPD1/780).

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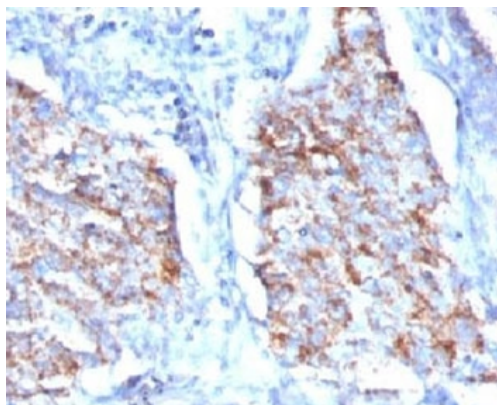
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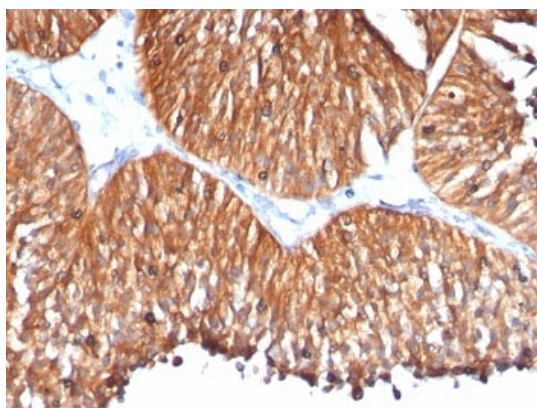
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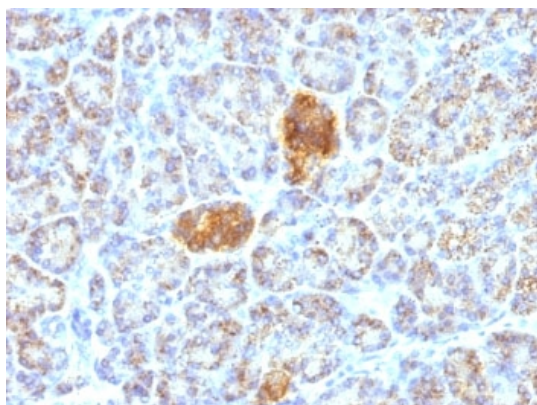
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IHC: Formalin-fixed, paraffin-embedded human lung carcinoma stained with HSP60 antibody (clone HSPD1/780).



IHC: Formalin-fixed, paraffin-embedded human bladder carcinoma stained with HSP60 antibody (clone HSPD1/780).



IHC: Formalin-fixed, paraffin-embedded human pancreas stained with HSP60 antibody (clone HSPD1/780).

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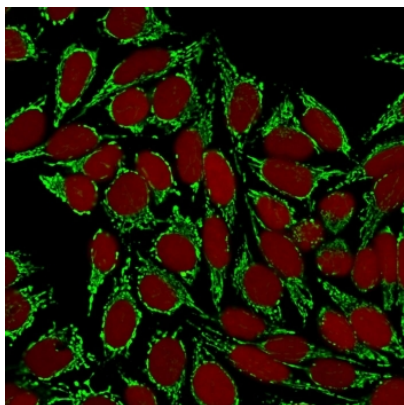
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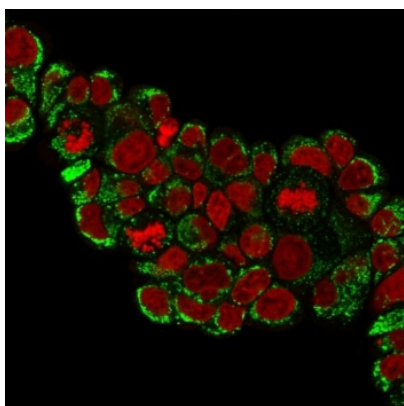
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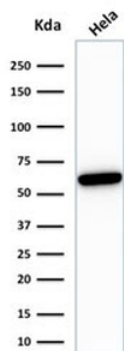
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Immunofluorescent staining of MeOH-fixed human HeLa cells with HSP60 antibody (clone HSPD1/780, green) and Reddot nuclear stain (red).



Immunofluorescent staining of MeOH-fixed human MCF7 cells with HSP60 antibody (clone HSPD1/780, green) and Reddot nuclear stain (red).



Western blot testing of human HeLa lysate with HSP60 antibody (clone HSPD1/780). Predicted molecular weight: ~60 kDa.

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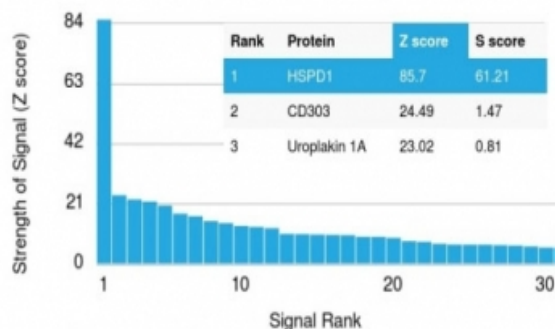
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Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19,000 full-length human proteins using HSP60 antibody (clone HSPD1/780). These results demonstrate the foremost specificity of the HSPD1/780 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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