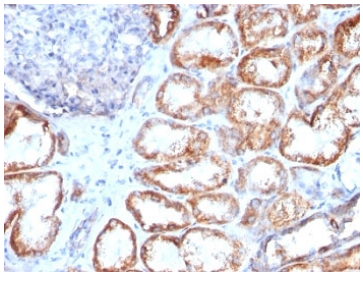
HSP60 Antibody / HSPD1 [clone HSPD1/780] (V2598)

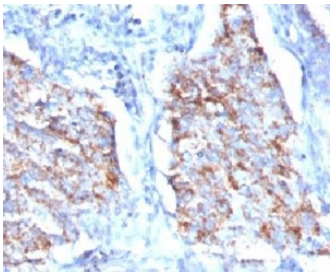
Catalog No.	Formulation	Size
V2598-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2598-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2598SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2598IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

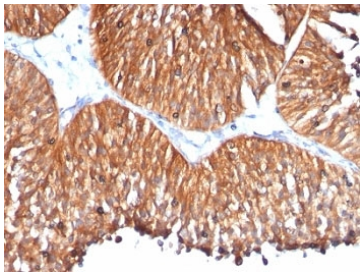
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	HSPD1/780
Purity	Protein G affinity chromatography
UniProt	P10809
Localization	Cytoplasm (mitochondria)
Applications	Immunofluorescence: 1-2ug/ml Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This HSP60 antibody is available for research use only.



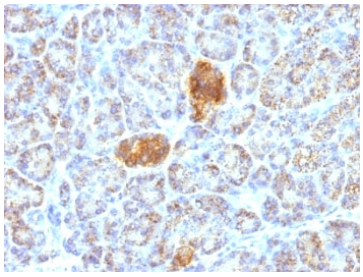
IHC: Formalin-fixed, paraffin-embedded human renal cell carcinoma stained with HSP60 antibody (clone HSPD1/780).



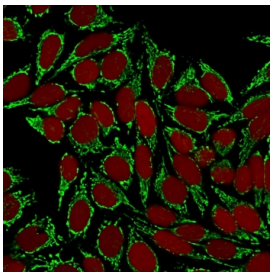
IHC: Formalin-fixed, paraffin-embedded human lung carcinoma stained with HSP60 antibody (clone HSPD1/780).



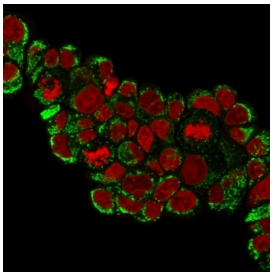
IHC: Formalin-fixed, paraffin-embedded human bladder carcinoma stained with HSP60 antibody (clone HSPD1/780).



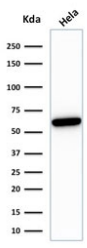
IHC: Formalin-fixed, paraffin-embedded human pancreas stained with HSP60 antibody (clone HSPD1/780).



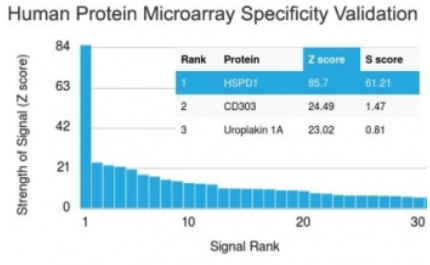
Immunofluorescent staining of MeOH-fixed human HeLa cells with HSP60 antibody (clone HSPD1/780, green) and Reddot nuclear stain (red).



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.



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.

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.

For a recombinant, Protein Microarray Validated option with broad mammalian species validation, see our HSP60 Antibody / Heat Shock Protein 60 Antibody page.

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 min
2. 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.

Immunogen

Recombinant human HSPD1 protein was used as the immunogen for the HSP60 antibody.

Storage

Store the HSP60 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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