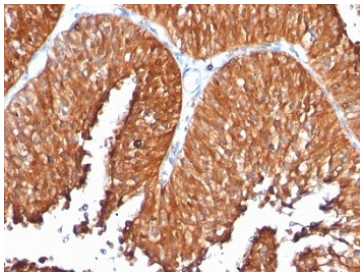
Anti-HSP60 Antibody / HSPD1 [clone SPM253] (V2594)

Catalog No.	Formulation	Size
V2594-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2594-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2594SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2594IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

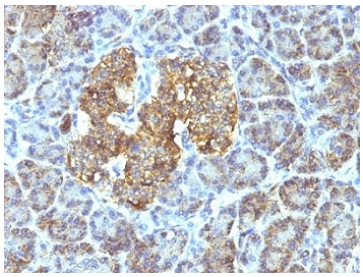
Citations (1)

Bulk quote request

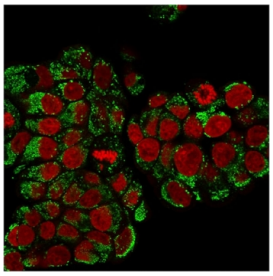
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SPM253
Purity	Protein G affinity chromatography
UniProt	P10809
Localization	Cytoplasm (mitochondria)
Applications	Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This anti-HSP60 antibody is available for research use only.



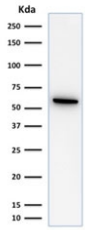
Formalin-fixed, paraffin-embedded human bladder carcinoma stained with anti-HSP60 antibody (clone SPM253).



Formalin-fixed, paraffin-embedded human pancreas stained with anti-HSP60 antibody (clone SPM253).



Immunofluorescent staining of PFA-fixed human MCF7 cells with HSP60 antibody (clone SPM253, green) and Reddot nuclear stain (red).



Western blot testing of human HeLa lysate with HSP60 antibody (clone SPM253). Predicted molecular weight: ~60 kDa.

Description

Recognizes a 60kDa protein, identified as the heat shock protein 60 (Hsp60). Its epitope is localized between amino acids 383-447 of human 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.

Application Notes

Optimal dilution of the anti-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 protein was used as the immunogen for the anti-HSP60 antibody.

Storage

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