HSP90AA1 (Heat Shock Protein 90) Antibody

Mouse Monoclonal Antibody [Clone HSP90AA1/7247]

Catalog No	Format	Size
3320-MSM7-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3320-MSM7-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3320-MSM7-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

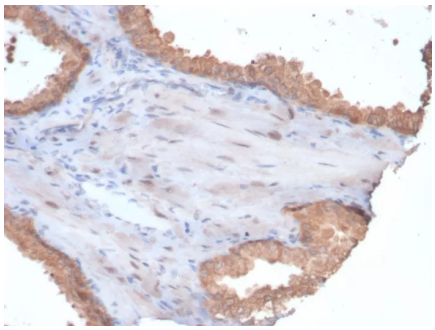
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

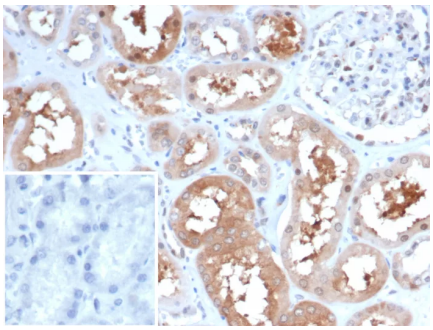
Clone	HSP90AA1/7247
Gene Name	HSP90AA1
Immunogen	Recombinant fragment (around aa500-700) of human HSP90AA1 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	90kDa
Cellular Localization	Cytoplasm. Melanosome.
Species Reactivity	Human
Positive Control	Human spleen|stomach or pancreas tissue. MCF-7 cells.

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

Product Images for HSP90AA1 (Heat Shock Protein 90) Antibody



Formalin-fixed, paraffin-embedded human prostate stained with HSP90AA1 Mouse Monoclonal Antibody (HSP90AA1/7247). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



Formalin-fixed, paraffin-embedded human kidney stained with HSP90AA1 Mouse Monoclonal Antibody (HSP90AA1/7247). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

The heat shock response was first described for Drosophila salivary gland cells and morphologically consists of a change in their polytene chromosome puffing patterns that involves de novo synthesis of a few proteins. Similar heat shock proteins were later discovered in bacterial chicken and mammalian cells, and have been subsequently studied in other organisms. A series of proteins including HSP 90, HSP 70, HSP 20-30 and ubiquitin are induced by insults such as temperature shock, chemicals and other environmental stress. A major function of HSP 90 and other HSPs is to act as molecular chaperones. HSP 90 forms a complex with glucocorticoid receptor (GR), rendering the non ligand-bound receptor transcriptionally inactive. HSP 90 binds the GR as a heterocomplex composed of either HSP 56 or Cyclophilin D, forming an aporeceptor comiplex. HSP 90 also exists as a dimer with other proteins such as p60/sti1 and p23, forming an apo-receptor complex with estrogen and androgen receptors.

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

AKT Signaling, Cardiovascular, Cytokine Signaling, Developmental Biology, Immunology, Infectious Disease, Signal Transduction, Transcription Factors

Limitations and Warranty