Enable Innovation DATA SHEET

Mouse Anti-Heat Shock Protein (HSP90) [MD109]: MC0409, MC0409RTU7

Intended Use: For Research Use Only

Description: 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 complex. HSP 90 also exists as a dimer with other proteins such as p60/STI1 and p23, forming an aporeceptor complex with estrogen and androgen receptors.

Specifications:

Clone: MD109 Source: Mouse Isotype: IgG1k Reactivity: Human

Immunogen: Recombinant human HSP90 protein fragment aa581-704

Localization:

Formulation: Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)

Store at 2°-8°C Storage: Applications: IHC, WB

Package:

Description	Catalog No.	Size
Heat Shock Protein (HSP90) Concentrated	MC0409	1 ml
Heat Shock Protein (HSP90) Prediluted	MC0409RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Spleen, stomach or pancreas tissue, MCF-7 cells

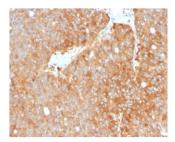
Concentrated Dilution:

Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes

using water bath at 95°-99°C

Incubation Time and Temp: 30-60 minutes @ RT

Refer to the detection system manual Detection: * Result should be confirmed by an established diagnostic procedure.



FFPE human pancreas stained with anti-HSP90 using DAB

References:

- 1. The Carbon monoxide releasing molecule ALF-186 mediates anti-inflammatory and neuroprotective effects via the soluble guanylate cyclase \$1 in rats' retinal ganglion cells after ischemia and reperfusion injury. Ulbrich F, et al. J Neuroinflammation 14:130, 2017.
- 2. Changes in the expression of Heat Shock Proteins in ovaries from bovines with cystic ovarian disease induced by ACTH. Velázquez MM, et al. Res Vet Sci 95:1059-67, 2013.
- 3. Characterization of the constitutive pig ovary heat shock chaperone machinery and its response to acute thermal stress or to seasonal variations. Pennarossa G, et al. Biol Reprod 87:119, 2012.

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Rev. A

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