Hsp90 alpha (5D6) Mouse mAb

db6605 **Package : 50μL 100μL**

Product Name : Hsp90 alpha (5D6) Mouse mAb
Cat.No.: db6605
Synonyms : EL52; Heat shock 86 KDa; HSP86; HSP90N; HSPC1
Application : WB, IHC-P
Reactivity : Human, Rat, Mouse
Host species : Mouse

Background	Molecular chaperone that promotes the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. Undergoes a functional cycle that is linked to its ATPase activity which is essential for its chaperone activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. Interacts dynamically with various co-chaperones that modulate its substrate recognition, ATPase cycle and chaperone function (PubMed/11274138, PubMed/15577939, PubMed/15937123, PubMed/27353360). Engages with a range of client protein classes via its interaction with various co-chaperone proteins or complexes, that act as adapters, simultaneously able to interact with the specific client and the central chaperone itself. Recruitment of ATP and co-chaperone followed by client protein forms a functional chaperone. After the completion of the chaperoning process, properly folded client protein and co-chaperone leave HSP90 in an ADP-bound partially open conformation and finally, ADP is released from HSP90 which acquires an open conformation for the next cycle (PubMed/27295069, PubMed/26991466). Apart from its chaperone activity, it also plays a role in the regulation of the transcription machinery. HSP90 and its co-chaperones modulate transcription at least at three different levels. In the first place, they alter the steady-state levels of certain transcription factors in response to various physiological cues. Second, they modulate the activity of certain epigenetic modifiers, such as histone deacetylases or DNA methyl transferases, and thereby respond to the change in the environment. Third, they participate in the eviction of histones from the promoter region of certain genes and thereby turn on gene expression (PubMed/25973397). Binds bacterial lipopolysaccharide (LPS) and mediates LPS-induced inflammatory response, including TNF secretion by monocytes (PubMed/11276205). Antagonizes STUB1-mediated inhibition of TGF-beta signaling via inhibition of STUB1-mediated SMAD3 ubiquitination and degradation (PubMed/24613385).
Immunogen	Purified recombinant protein expressed in E.coli
Gene ID	3320
Swiss Prot	P07900

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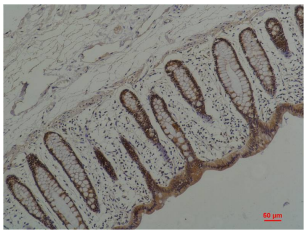
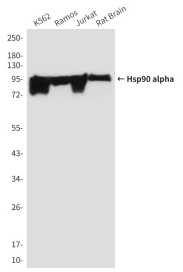
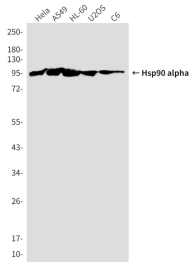
Application	WB, IHC-P
Recommended dilution	WB: 1:500-1:1000 IHC: 1:50-1:100
Calculated MW	85 kDa
Observed MW	95 kDa
Host species	Mouse
Clonality	Monoclonal
Clonality No.	5D6-2G8-6D5
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



Immunohistochemistry analysis of paraffin-embedded Human Colon Caricnoma using Hsp90 alpha (5D6) antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western blot analysis of Hsp90 alpha (5D6) in K562, Ramos, Jurkat, rat Brain lysates using Hsp90 alpha (5D6) antibody



Western blot analysis of Hsp90 alpha (5D6) in Hela, A549, HL6, U2OS, C6 lysates using Hsp90 alpha (5D6) antibody