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42-1468: Anti-HSP22 Monoclonal Antibody (Clone : 3C12-H11) RPE (Discontinued)

Clonality :	Monoclonal
Clone Name :	3С12-Н11
Application :	ELISA,ICC/IF,IHC,WB
Reactivity :	Rat,Mouse,Human
Gene :	HSPB8
Gene ID :	26353
Uniprot ID :	Q9UJY1
Alternative Name :	HCRYAC,E2IG1,HSP22,
Isotype :	Mouse IgG1 Kappa
Immunogen Information :	His-tagged human recombinant HSP22

Description

HSP27s belong to an abundant and ubiquitous family of small heat shock proteins (sHSP). It is an important HSP found in both normal human cells and cancer cells. The basic structure of most sHSPs is a homologous and highly conserved amino acid sequence, with an alpha-crystallin domain at the C-terminus and the WD/EPF domain at the less conserved N-terminus. This N-terminus is essential for the development of high molecular oligomers. HSP27-oligomers consist of stable dimers formed by as many as 8-40 HSP27 protein monomers. The oligomerization status is connected with the chaperone activity: aggregates of large oligomers have high chaperone activity, whereas dimers have no chaperone activity. HSP27 is localized to the cytoplasm of unstressed cells but can redistribute to the nucleus in response to stress, where it may function to stabilize DNA and/or the nuclear membrane. Other functions include chaperone activity (as mentioned above), thermo tolerance in vivo, inhibition of apoptosis, and signal transduction. Specifically, in vitro, it acts as an ATP independent chaperone by inhibiting protein aggregation and by stabilizing partially denatured proteins, which ensures refolding of the HSP70 complex. HSP27 is also involved in the apoptotic signaling pathway because it interferes with the activation of cytochrome c/Apaf-1/dATP complex, thereby inhibiting the activation of procaspase-9. It is also hypothesized that HSP27 may serve some role in cross-bridge formation between actin and myosin. And finally, HSP27 is also thought to be involved in the process of cell differentiation. The up-regulation of HSP27 correlates with the rate of phosphorylation and with an increase of large oligomers. It is possible that HSP27 may play a crucial role in termination of growth.

Product Info

Amount :	100 µg
Purification :	Protein G Purified
Content :	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Storage condition :	Store the antibody at 4°C

Application Note

WB (1:2000), IHC (1:100); optimal dilutions for assays should be determined by the user.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982 Email: info@abeomics.com

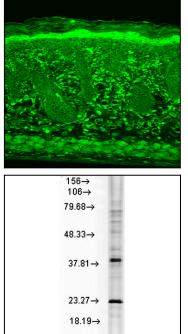


Figure1 : Mouse Anti-Hsp22 Antibody [3C12-H11] used in Immunohistochemistry (IHC) on Mouse backskin

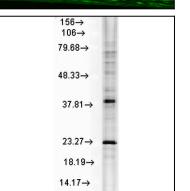


Figure 2 : Mouse Anti-Hsp22 Antibody [3C12-H11] used in Western Blot (WB) on Rat Cell lysates