

## bs-0730R-A647

### • Rabbit Anti-HSP27 Polyclonal Antibody, Alexa Fluor 647 conjugated

Conjugated Primary Antibodies

#### Background:

Heat Shock Protein 27 (HSP27) is a 27 kDa member of a family of proteins whose expression and function are stimulated by heat shock and other stress stimuli. A major function of these proteins is to serve as chaperones that bind to and stabilize the active conformation of other proteins. HSP27, along with other members of the small HSP group, possesses a C-terminal Alpha-crystalline homology domain. 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. Cytoplasmic HSP27 exists in multiple complexes. One complex consists of HSP27, Akt (PKB), MAPKAP-kinase 2, and p38 MAPK. The presence of HSP27 in this complex is required for Akt activation by stress stimuli. Another complex consists of HSP27 and the IKK complex. HSP27 is also an actin capping protein that binds to the barbed (growing) ends of actin filaments, thereby inhibiting filament extension. Phosphorylation of HSP27 on serine 82 by MAPKAP-kinase 2 leads to HSP27 dissociation from the Akt/MAPKAP-kinase 2/p38 complex and from actin filaments, and stimulates HSP27 binding to the IKK complex.

**Purification:** Was purified by Protein A and peptide affinity chromatography.

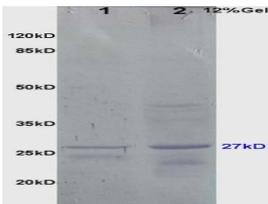
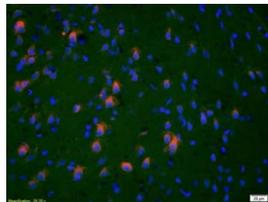
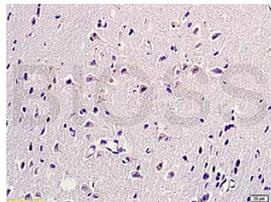
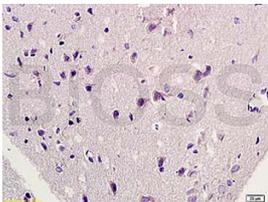
#### Storage:

Aqueous buffered solution containing 100ug/ml BSA, 50% glycerol and less than 0.09% sodium azide. Store at -20°C for 12 months. Protect from light. [Product without BSA and/or sodium azide is available for special order.]

#### Reconstitution:

If the antibody is in liquid form, no reconstitution needed.

Reconstitution is only required for the lyophilized antibody. Please refer to the reconstitution instruction card in the package.



**Size:** 100ul

**Concentration:** 1ug/uL

**Host:** Rabbit

**Reactivities:**

Human, Mouse, Rat, Dog, Pig, Bovine,

**Application:**

- IF(1:100-500)
- Not yet tested in other applications. Optimal working dilutions must be determined by the end user.

**Antibody Type:** Polyclonal

**Isotype:** IgG

**Molecular Weight:** 27kDa

**Note:**

For research use only. CAUTION: Not for human or animal therapeutic or diagnostic use.

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