



Anti-HSPB1 heak shack 27KDa protein 1(HSP27), Chicken-Polyclonal Antibody

Catalog No. PY-10245
Antigen species: Human
Host species: Chicken

Quantity: 100µg **Applications:** Western blot, IHC
Reactivity: Human, Mouse, bovine
Form: Antigen affinity purified antibody

Target description

Heat shock proteins (Hsps) comprise several different families of proteins that are induced in response to a wide variety of physiological and environmental insults. Hsp27 is a molecular chaperone with an ability to interact with a large number of proteins that regulates apoptosis. Hsp27 appears to be a potent protective factor for neuronal cells whose mutation results in neuronal cell death and disease.

Antigen

This polyclonal antibody was raised by immunizing chicken with HSP27 fusion protein (145-205 amino acids).

Application

Western blotting, tissue or cell immunostaining. Recommended starting dilution for Western blot analysis is 1:3,000(ECL method), for tissue or cell staining is 1:1,000.

Related Products

1. Anti-Amyloid β (1-40), rabbit pAb (GB-10536)
2. Anti-Amyloid β (37-42), rabbit pAb (GB-10370)
3. Anti-human fibrinogen , rabbit pAb (PG-10006)
4. Anti-Taxol , rabbit pAb (PG-10007)
5. Anti-Troponin I (TNNI3), chicken pAb (PY-10206)

kDa

31 —

24 —

19 —



← HSPB1 fusion protein

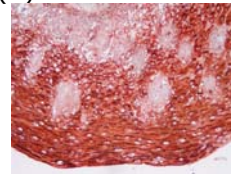
E. coli derived protein as test antigen.

Western blot Protocol

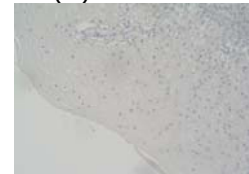
1. Block membrane with 5% non-fat milk in PBS-T for 1 hour at room temperature or longer at 4°C.
2. Incubate membrane with IgY antibodies at dilution of 1: 3,000 with 1% milk in PBS-T at R.T. for 1 h.
3. Rinse 3 times with PBS-T, then wash membrane with PBS-T, 5 min each, total of 3 times.
4. Incubate with 2nd antibody (goat-anti-IgY/Fc-HRP) at dilution 1: 10,000 for ECL (with 1% milk PBS-T) at R.T. for 1 h.
5. Rinse 3 times with PBS-T, then wash with PBS-T, 5 min each with shaking, total of 3 times.
6. Perform ECL detection of signal using Pierce ECL kit.

DAB method Tissue staining:

(A)



(B)



- (A) Oral cancer epithelium, HSPB1 (1: 500)
(B) Oral epithelium, negative control

Storage

It is supplied as antigen affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Latchman, D.S. HSP27 and cell survival in neurones. *Int J Hyperthermia*. 2005 Aug; 21(5):393-402.
2. Concannon, C.G., Gorman, A.M., Samali, A. On the role of Hsp27 in regulating apoptosis. *Apoptosis*. 2003 Jan; 8(1):61-70.