

HSPB2

Rabbit Anti-Human Hsp27 Affinity Purified pAb

Catalog No.	CPH101	Quantity:	100 µg
Alternate Names:	Hsp27, HSPB1, CMT2F, DKFZp586P1322, HS.76067, HSP27, HSP28, Hsp25		
Description:	Rabbit Anti-Human HSPB2 polyclonal antibody. Human HSPB2, mouse Hspb1 and αβ-crystallin are part of a diverse family of small heat shock proteins which are produced in all organisms. They function as chaperone-like proteins by binding unfolded polypeptides and preventing uncontrolled protein aggregation. HSPB2 is believed to exist mainly as oligomers of as many as 8-40 HSPB2 protein monomers in cells. Data suggests that the large oligomers of HSPB2 have a chaperone-like activity by serving as a site where unfolding proteins may bind until ATP and HSP70-dependent refolding can occur. HSPB2 is believed to protect cells by enhancing cellular glutathione levels and elevated glutathione levels have been measured in cells overexpressing HSPB2. Data from studies using wild-type HSPB2 and mutant forms in which the serine phosphorylation sites were mutated to alanines, glycines or aspartates, have shown that cellular glutathione levels depend on the oligomerization of HSPB2. Recent findings indicate that HSPB2 is also a negative regulator of cytochrome c-dependent activation of procaspase -3.		
Concentration:	0.2 mg/ml		
Gene ID:	11036357		
Specificity:	Detects a 27 kDa protein, corresponding to the apparent molecular mass of HSPB2 on SDS-PAGE immunoblots.		
Host:	Rabbit		
Isotype:	IgG		
Formulation:	Liquid in PBS, pH 7.2 + 50% glycerol + 1% BSA + 0.02% thimerosal. Precaution: Thimerosal is a poisonous and hazardous substance which should be handled by trained staff only.		
Purification:	Affinity Purified		
Cross-Reactivity:	Reacts with human, monkey, dog (weakly), and pig.		
Applications:	Western Blot ELISA Immunoprecipitation Immunocytochemistry		
Application Notes:	For Western Blot, use a working dilution of 1-2 µg/ml. For ELISA, use a working dilution of 1 µg/ml. For Immunoprecipitation, use a working dilution of 5-10 µg/ml. For Immunocytochemistry, use a working dilution of 10-15 µg/ml. The optimal concentration should be determined by the user for each specific application.		
Storage & Stability:	Store at -20°C or in working aliquots at -80°C for long term storage. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

