

## HSPA2

### Rabbit Anti-Human Heat Shock 70kDa Protein 2 pAb

<b>Catalog No.</b>	CPH104	<b>Quantity:</b>	100 µg
<b>Alternate Names:</b>	HSP70-2		
<b>Description:</b>	<p>Hsp70, one class of stress proteins, is comprised of multiple members, all of which bind ATP in vitro, but are localized within different intracellular compartments. These include: a) the constitutive Hsc70 (or cognate) present within the cytosol/nucleus; b) the highly stress-inducible Hsp70 present within the cytosol/ nucleus/nucleolus; c) the constitutive glucose regulated 78 kDa (or BiP) protein present within the lumen of the endoplasmic reticulum; and d) the glucose regulated 75 kDa protein present within the mitochondria. Hsp70 is typically not expressed in the cell under normal growth conditions, but is expressed at high levels in the cell experiencing stress. Consequently, detection of Hsp70 using an antibody specific for the inducible form is quite useful in ascertaining whether a stress response has occurred in the cell. It should be noted, however, that there is a constitutive level of Hsp70 expression in some cell types such as primates, e. g., human and monkey. Nevertheless increased expression of Hsp70 is observed in such cells following stress.</p>		
<b>Gene ID:</b>	3306		
<b>UniProtKB:</b>	P54652		
<b>Concentration:</b>	500 µg/mL		
<b>Specificity:</b>	Recognizes the inducible form of HSP70 (Hsp72).		
<b>Host:</b>	Rabbit		
<b>Immunogen:</b>	Synthetic peptide surrounding amino acid 559 of human Hsp70		
<b>Formulation:</b>	Liquid in PBS, pH 7.2, 30% glycerol, 1% BSA and 0.02% thimerosal.		
<b>Cross-Reactivity:</b>	Reacts with human, mouse, rat, cow, rabbit, monkey, hamster. Does not cross-react with the constitutive HSP70 (Hsc73).		
<b>Applications:</b>	Western Blot		
<b>Application Notes:</b>	Western Blot: 1-2 µg/mL. The optimal concentration should be determined by the user for each specific application.		
<b>Storage &amp; Stability:</b>	Store at -20 °C for up to one year.		
<b>Also Available:</b>	Blocking peptide, CPH104BP		

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