

## Product datasheet for **TA392681**

### HSP70-1A (HSPA1A) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500~1:1000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human HSP70 around the phosphorylation site of Tyrosine 41.
Specificity:	p-HSP70 (Y41) polyclonal antibody detects endogenous levels of HSP70 protein only when phosphorylated at Tyr41.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 70 kDa
Gene Name:	heat shock protein family A (Hsp70) member 1A
Database Link:	<a href="#">Entrez Gene 3303 Human P08107</a>



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**Background:**

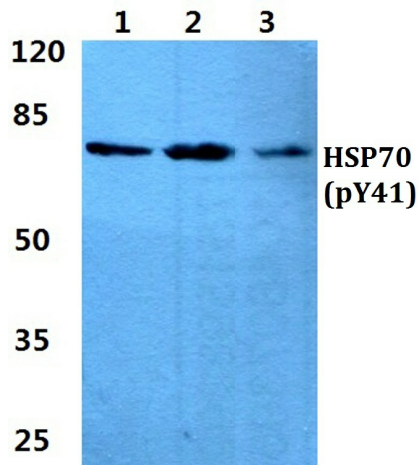
The HSP 70 family is composed of four highly conserved proteins: HSP 70, HSC 70, GRP 75 and GRP 78. These proteins serve a variety of roles: they act as molecular chaperones facilitating the assembly of multi-protein complexes, participate in the translocation of polypeptides across cell membranes and to the nucleus and aid in the proper folding of nascent polypeptide chains. All members of the family, except HSP 70, are constitutively expressed in primate cells. HSP 70 expression is strongly induced in response to heat stress. HSP 70 and HSC 70 play key roles in the cytosolic endoplasmic reticulum and mitochondrial import machinery and are found in both the cytosol and nucleus of mammalian cells. Both HSP 70 and HSC 70 are involved in the chaperoning of nascent polypeptide chains and in protecting cells against the accumulation of improperly folded proteins. GRP 78 is localized in the endoplasmic reticulum, where it receives imported secretory proteins and is involved in the folding and translocation of nascent peptide chains. It has been postulated that members of the HSP 70 family act as force-generating motors, relying on the hydrolysis of ATP for their activity.

**Synonyms:**

Heat shock 70 kDa protein 1/2; Heat shock 70 kDa protein 1A/1B; HSP-70; HSP 70; HSP70-1/HSP70-2; HSP70.1/HSP70.2; HSPA1; HSPA1A; HSPA1B; HSX70

**Note:**

For research use only, not for use in diagnostic procedure.

**Product images:**

Western blot (WB) analysis of HSP70 (phospho-Y41) pAb at 1:500 dilution Lane1:MCF-7 whole cell lysate(40ug) Lane2:SK-OVCAR3 whole cell lysate(40ug) Lane3:The Testis tissue lysate of Mouse(40ug) Lane4:The Testis tissue lysate of Rat(40ug)