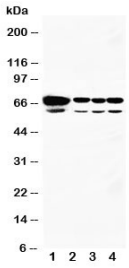
HSPA2 Antibody (R30912)

Catalog No.	Formulation	Size
R30912	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P54652
Applications	Western blot: 0.5-1ug/ml
Limitations	This HSPA2 antibody is available for research use only.



Western blot testing of HSPA2 antibody and Lane 1: rat testis; 2: human A549; 3: MCF-7; 4: HeLa cell lysate. Expected size 70KD

Description

Heat shock 70kDa protein 2 is also known as HSP70-2 and HSPA2. Analysis of the sequence indicated that HSPA2 is the human homolog of the murine Hsp70-2 gene, with 91.7% identity in the nucleotide coding sequence and 98.2% in the corresponding amino acid sequence. HSPA2 has less amino acid homology to the other members of the human HSP70 gene family. It is constitutively expressed in most tissues, with very high levels in testis and skeletal muscle. The gene is located on chromosome 14q22-q24. Immunohistochemical analysis detected weak expression of HSPA2 in spermatocytes and stronger expression in spermatids and in the tail of mature sperm. The protein may be critical to sperm maturation through its role as a protein chaperone.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the HSPA2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Heat shock 70kDa protein 2 (VINWLDRNQMAEKDEYEHKQ) was used as the immunogen for this HSPA2 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the HSPA2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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