

For Research Use Only

HSPA2 Recombinant antibody

Catalog Number: 83466-1-RR



Basic Information

Catalog Number: 83466-1-RR	GenBank Accession Number: BC036107	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 3306	CloneNo.: 240421A2
Source: Rabbit	UNIPROT ID: P54652	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Full Name: heat shock 70kDa protein 2	
Immunogen Catalog Number: AG3539	Calculated MW: 639 aa, 70 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications:
WB, ELISA

Species Specificity:
Human, mouse

Positive Controls:

WB : HeLa cells, A431 cells, A549 cells, HaCaT cells, NIH/3T3 cells, human kidney tissue

Background Information

Human HSPA2 is a member of the HSPA (HSP70) family of heat-shock proteins, encoded by the gene originally described as testis-specific. Recently, it has been reported that HSPA2 can be also expressed in human somatic tissues in a cell-type specific manner. HSPA2 is a cytosol/nuclear protein able to translocate between cytoplasm and nucleus. At physiological temperature, the HSPA2 was localized primarily in cytoplasm whereas, during heat shock, localization shifted to nucleus and nucleoli (PMID: 18452162). HSPA2 is involved in sperm maturity, function and fertility. Aberrant expression of HSPA2 in testes has been connected with male infertility. Recently, HSPA2 has attracted increased interest due to its possible involvement in carcinogenesis of non-testicular tissues. This antibody well recognized the endogenous HSPA2 protein in testis and multiple cell lines. (21373891)

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

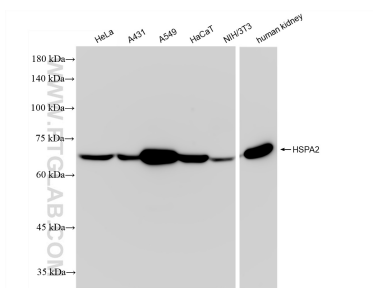
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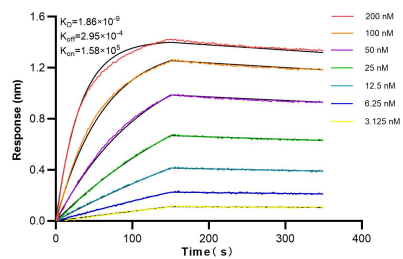
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83466-1-RR (HSPA2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83466-1-RR against Human HSPA2 were performed. The affinity constant is 1.86 nM.