

HSPA2 Polyclonal Antibody

Catalog number: 12797-1-AP

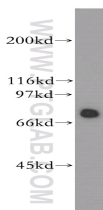
Size: 21 µg/150 µl

Source: Rabbit

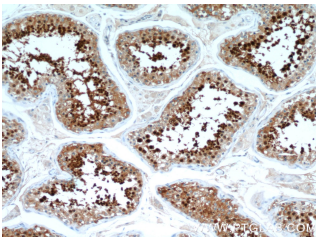
Isotype: IgG

Synonyms:

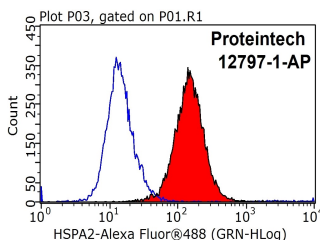
HSPA2; Heat shock 70 kDa protein 2, heat shock 70kDa protein 2, HSP70 2, HSP70 3, HSPA2



human ileum tissue were subjected to SDS PAGE followed by western blot with 12797-1-AP(HSPA2 antibody) at dilution of 1:300



Immunohistochemical of paraffin-embedded human testis using 12797-1-AP(HSPA2 antibody) at dilution of 1:50 (under 10x lens)



1X10⁶ HeLa cells were stained with 0.2µg HSPA2 antibody (12797-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

Background

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. 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 HSPA4 protein in testis and multiple cell lines. (21373891)

Applications

Tested applications:	ELISA, WB, IHC, FC, IP
Cited applications:	IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Mouse
Calculated HSPA2 MW:	639aa, 70 kDa
Observed HSPA2 MW:	65-70 kDa
Positive WB detected in	Human ileum tissue, A431 cells, HeLa cells, human brain tissue, human kidney tissue, human skeletal muscle tissue, MCF7 cells
Positive IP detected in	Mouse skeletal muscle tissue
Positive IHC detected in	Human testis tissue, human prostate hyperplasia tissue
Positive FC detected in	HeLa cells
Application note:	It works very well. By Dr. Fengyun Sun
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200 FC: N/A

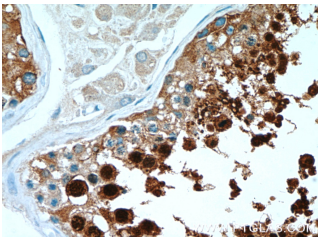
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

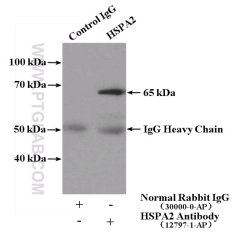
Immunogen:	Ag3539
GenBank accession number:	BC036107
Gene ID (NCBI):	3306
Full name:	Heat shock 70kDa protein 2

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



Immunohistochemical of paraffin-embedded human testis using 12797-1-AP(HSPA2 antibody) at dilution of 1:50 (under 40x lens)



IP Result of anti-HSPA2 (IP:12797-1-AP, 4ug; Detection:12797-1-AP 1:1000) with mouse skeletal muscle tissue lysate 4000ug.