Data Sheet (Cat.No.TMAB-00893)

TargetMol

Anti-HSP70 Polyclonal Antibody

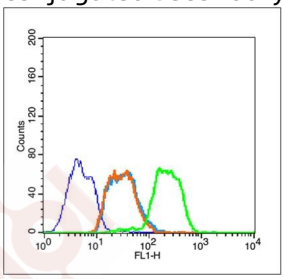
Product Details

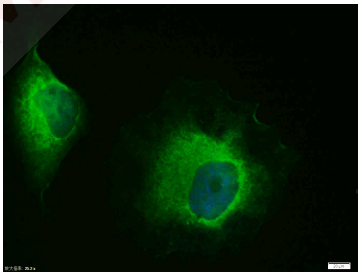
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Cow,Rabbit,Sheep)
Molecular Weight:	Theoretical: 70 kDa. Actual: 68 kDa.
Purification:	Protein A purified

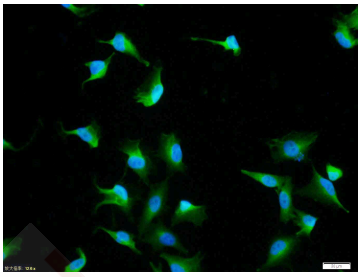
Applications

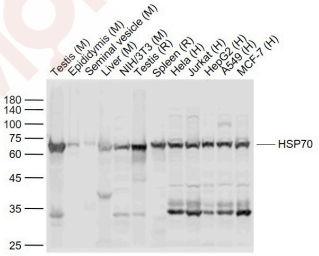
Verified Activity:	1. Blank control (blue line): Jurkat (blue). Primary Antibody (green line): Rabbit Anti-HSP70 antibody (TMAB-00893) Dilution: 1 µg/10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC Dilution: 1 µg/test. Protocol The cells were fixed with 2% paraformaldehyde (10 min), then permeabilized with 90% ice-cold methanol for 30 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2% BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. 2. Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (HSP70) polyclonal Antibody, Unconjugated (TMAB-00893) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus. 3. Tissue/cell: A549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (HSP70) polyclonal Antibody, Unconjugated (TMAB-00893) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus. 4. Sample: Lane 1: Testis (Mouse) Lysate at 40 µg Lane 2: Epididymis (Mouse) Lysate at 40 µg Lane 3: Seminal vesicle (Mouse) Lysate at 40 µg Lane 4: Liver (Mouse) Lysate at 40 µg Lane 5: NIH/3T3 (Mouse) Cell Lysate at 30 µg Lane 6: Testis (Rat) Lysate at 40 µg Lane 7: Spleen (Rat) Lysate at 40 µg Lane 8: Hela (Human) Cell Lysate at 30 µg Lane 9: Jurkat (Human) Cell Lysate at 30 µg Lane 10: HepG2 (Human) Cell Lysate at 30 µg Lane 11: A549 (Human) Cell Lysate at 30 µg Lane 12: MCF-7 (Human) Cell Lysate at 30 µg Primary: Anti-HSP70 (TMAB-00893) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

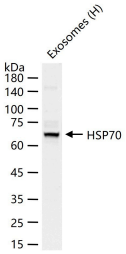
Predicted band size: 70 kDa
Observed band size: 68 kDa
5. 25 μg total protein per Lane of various lysates probed with HSP70 polyclonal antibody, unconjugated (TMAB-00893) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.











Application:	FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB
Recommended	FCM=1 μg/Test; ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human HSP70

Antigen Species: Human

Gene ID: 3303

Uniprot ID: P0DMV8

Synonyms: heat shock 70kDa protein 1A

Biology Area: Heat Shock Proteins,Tumor biomarkers

Research Background

This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjuction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins. [provided by RefSeq, Jul 2008].

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481