

## Anti-HSP70 Antibody (9K165)

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 70 kDa. Actual: 68 kDa.
Clone:	9K165
Purification:	Protein A purified

### Applications

1. Blank control: Jurkat.

Primary Antibody (green line): Rabbit Anti-HSP70 antibody (TMAB-00895)

Dilution: 1 µg/Test;

Secondary Antibody: Goat anti-rabbit IgG-FITC

Dilution: 0.5 µg/Test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

2. Paraformaldehyde-fixed, paraffin embedded Mouse Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with HSP70 Monoclonal Antibody, Unconjugated (TMAB-00895) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

3. Paraformaldehyde-fixed, paraffin embedded Rat Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with HSP70 Monoclonal Antibody, Unconjugated (TMAB-00895) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded Human Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with HSP70 Monoclonal Antibody, Unconjugated (TMAB-00895) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

5. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with HSP70 Monoclonal Antibody, Unconjugated (TMAB-00895) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

6. Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with HSP70 Monoclonal Antibody, Unconjugated (TMAB-00895) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

7. Paraformaldehyde-fixed, paraffin embedded Human lung squamous cell carcinoma; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with HSP70 Monoclonal Antibody, Unconjugated (TMAB-00895) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

8. Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by

Verified Activity:

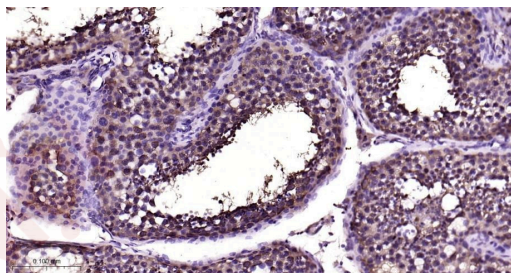
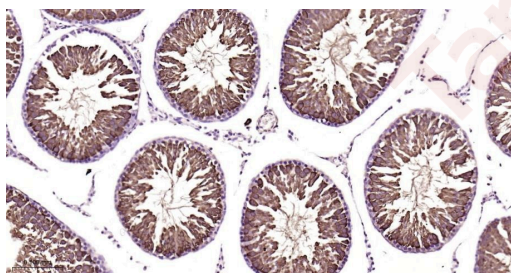
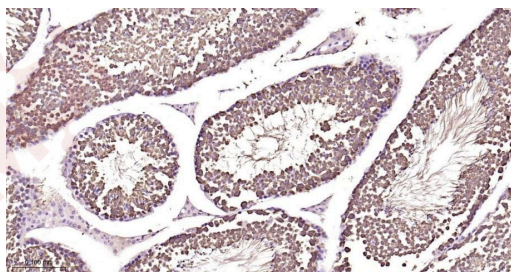
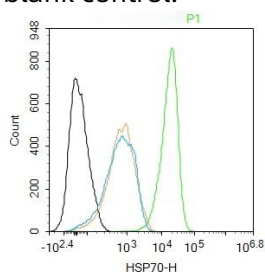
boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with HSP70 Monoclonal Antibody, Unconjugated (TMAB-00895) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

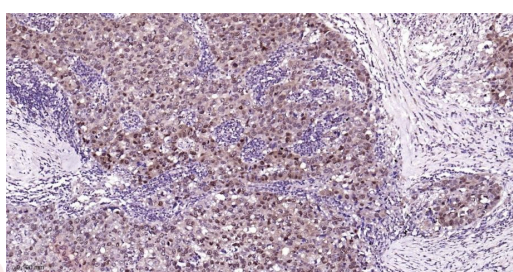
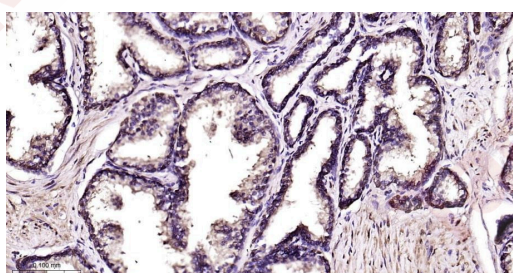
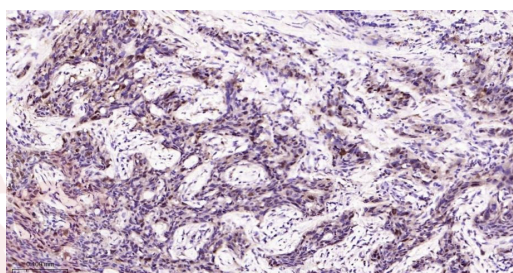
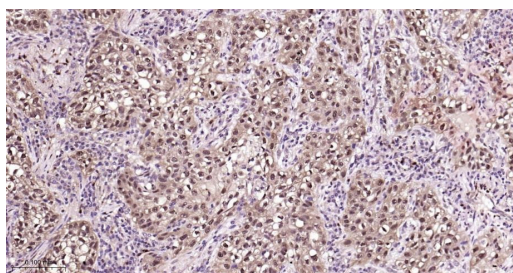
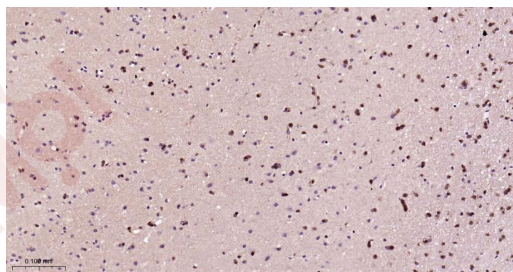
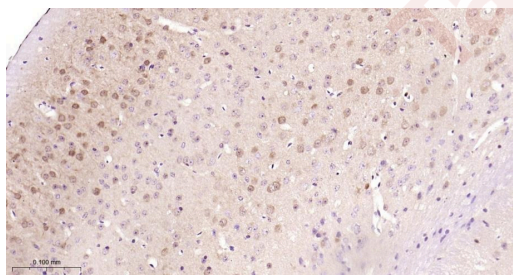
9. Paraformaldehyde-fixed, paraffin embedded Human Prostate Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with HSP70 Monoclonal Antibody, Unconjugated (TMAB-00895) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

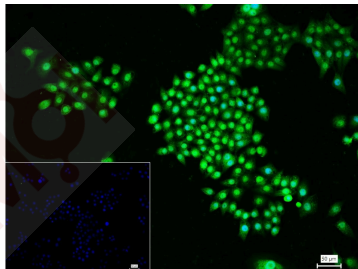
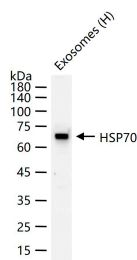
10. Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with HSP70 Monoclonal Antibody, Unconjugated (TMAB-00895) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

11. 25 µg total protein per Lane of various lysates probed with HSP70 monoclonal antibody, unconjugated (TMAB-00895) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.

12. 4% Paraformaldehyde-fixed MCF-7 (H) cell; Triton X-100 at RT for 20 min; Antibody incubation with (HSP70) monoclonal Antibody, unconjugated (TMAB-00895) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green ) at 37°C for 90 min, DAPI (blue) was used to stain the cell nucleus. PBS instead of the primary antibody was used as the blank control.







Application: FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB

Recommended WB=1:1000-2000,IHC-P=1:200-500,IHC-F=1:200-500,ICC/IF=1:50-200,IF=1:200-500,Flow-Cyt=1:50-100

## 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: A synthesized 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 conjunction 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].

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