

**Product Name: HSP70(3G10)Mouse Monoclonal Antibody**  
**Catalog #: AMM12254**

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## Summary

<b>Production Name</b>	HSP70(3G10)Mouse Monoclonal Antibody
<b>Description</b>	Mouse Monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,IF
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	PBS, pH 7.4, containing 0.5%BSA, 0.02% New type preservative N as Preservative and 50% Glycerol.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	HSPA1L/HSPA1A
<b>Alternative Names</b>	
<b>Gene ID</b>	3305/3303/3304
<b>SwissProt ID</b>	P34931/P08107.Synthetic Peptide of HSP70

## Application

<b>Dilution Ratio</b>	WB 1:1000-2000 IF 1:100-200 IHC 1:50-300
<b>Molecular Weight</b>	70kD

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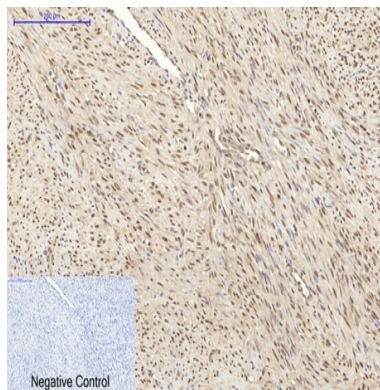
## Background

This gene encodes a 70kDa heat shock protein. 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. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which also encode isoforms of the 70kDa heat shock protein. [provided by RefSeq, Jul 2008],function:In cooperation with other chaperones, Hsp70s stabilize preexistent proteins against aggregation and mediate the folding of newly translated polypeptides in the cytosol as well as within organelles. These chaperones participate in all these processes through their ability to recognize nonnative conformations of other proteins. They bind extended peptide segments with a net hydrophobic character exposed by polypeptides during translation and membrane translocation, or following stress-induced damage.,induction:Not induced by heat shock.,similarity:Belongs to the heat shock protein 70 family.,tissue specificity:Expressed in spermatids.,

## Research Area

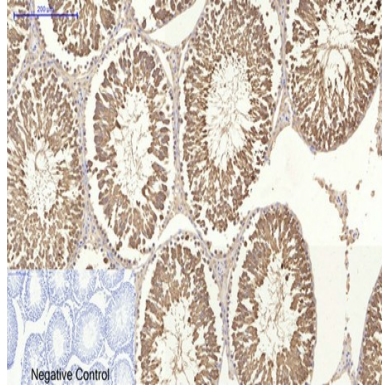
Spliceosome;MAPK\_ERK\_Growth;MAPK\_G\_Protein;Endocytosis;Antigen processing and presentation;

## Image Data

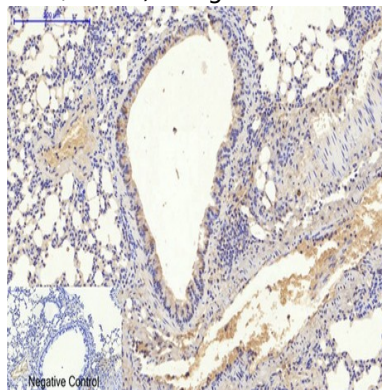


Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1,HSP70 Monoclonal Antibody (3G10) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.

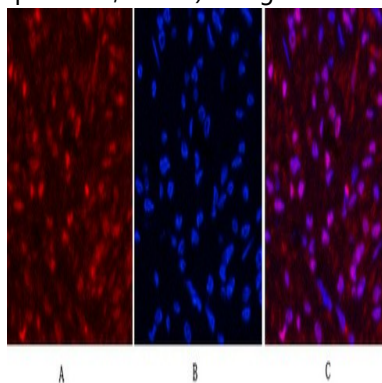
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Immunohistochemical analysis of paraffin-embedded Rat-testis tissue. 1,HSP70 Monoclonal Antibody (3G10) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.

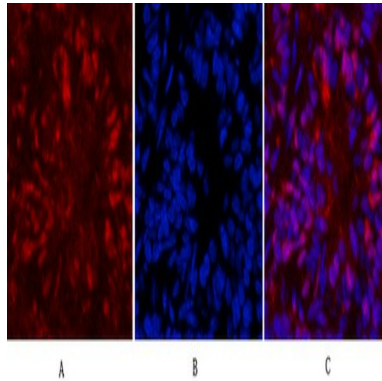


Immunohistochemical analysis of paraffin-embedded Mouse-lung tissue. 1,HSP70 Monoclonal Antibody (3G10) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.

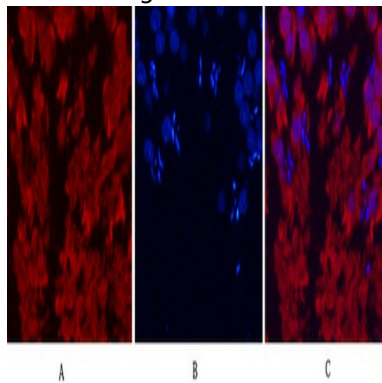


Immunofluorescence analysis of Human-breast-cancer tissue. 1,HSP70 Monoclonal Antibody (3G10) (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) . 3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

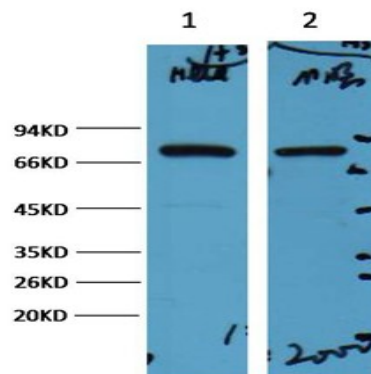
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Immunofluorescence analysis of Mouse-lung tissue. 1,HSP70 Monoclonal Antibody (3G10) (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



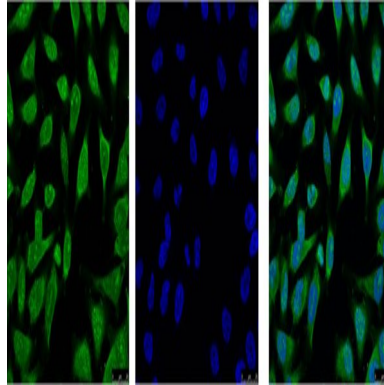
Immunofluorescence analysis of Rat-testis tissue. 1,HSP70 Monoclonal Antibody (3G10) (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



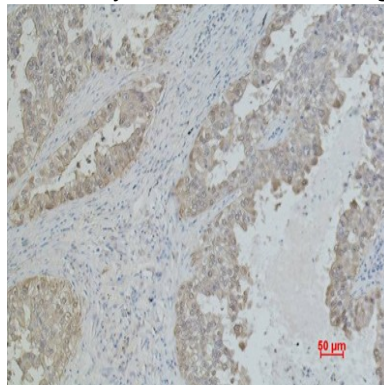
Western blot analysis of 1) HeLa, 2) Mouse Brain, diluted at 1:2000.

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IF analysis of HeLa with antibody (Left) and DAPI (Right) diluted at 1:100.



Immunohistochemical analysis of paraffin-embedded Human Lung carcinoma using Mouse mAb diluted at 1:500.

## **Note**

For research use only.