

HSP70 (3G10) Mouse mAb

CatalogNo: YM3042 Orthogonal Validated 

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF

MW

- 70kD (Observed)

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation PBS, pH 7.4, containing 0.5% BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Recommended Dilution Ratios

WB 1:1000-2000

IF 1:100-200

IHC 1:50-300

Basic Information

Clonality Monoclonal

Clone Number 3G10

Immunogen Information

Immunogen Human protein HSP70 at C-terminal

Specificity The antibody detects endogenous HSP70 proteins.

Target Information

Gene name HSPA1A;HSPA1B

Protein Name Heat shock 70 kDa protein 1A/1B

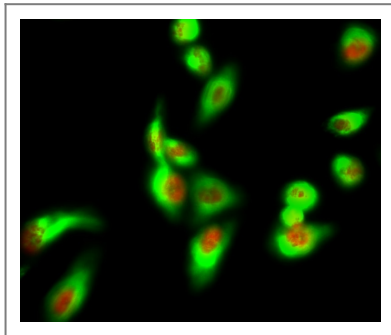
Organism	Gene ID	UniProt ID
Human	3303 ; 3304 ;	P0DMV8 ; P0DMV9 ;

Cellular Localization Cytoplasm . Nucleus . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Secreted . Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

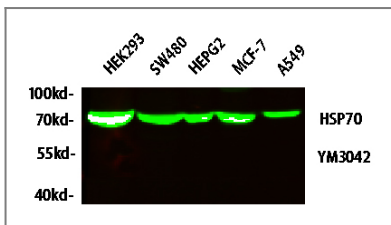
Tissue specificity Brain,Cajal-Retzius cell,Embryonic kidney,Epithelium,Fetal

Function 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. In case of rotavirus A infection, serves as a post-attachment receptor for the virus to facilitate entry into the cell.,induction:By heat shock.,similarity:Belongs to the heat shock protein 70 family.,subunit:HSPA1B is found in a sperm-specific complex with CATSPER1 and CATSPERB (By similarity). Interacts with TSC2. Interacts with IRAK1BP1.,tissue specificity:HSPA1B is testis-specific.,

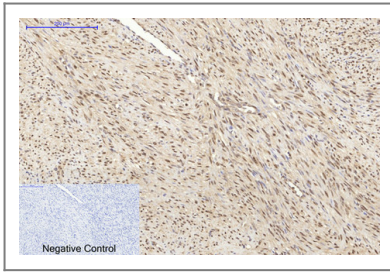
Validation Data



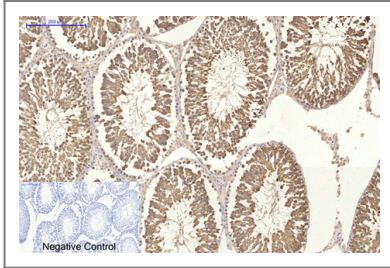
Immunofluorescence analysis of HeLa cell. 1,Rabbit β -Tubulin Antibody YM8335 (green) was diluted at 1:200(4° overnight). HSP70 (3G10) Mouse mAb(red) was diluted at 1:200(4° overnight).2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 594 Catalog:RS3608 was diluted at 1:1000(room temperature, 50min).



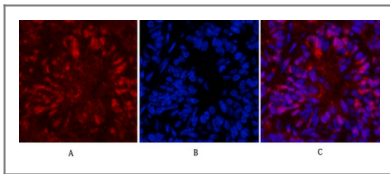
Western blot analysis of lysates from HT-29, NIH/3T3, and HepG2 cells, primary antibody was diluted at 1:1000, 4° over night, secondary antibody(cat: RS23910)was diluted at 1:10000, 37° 1hour.



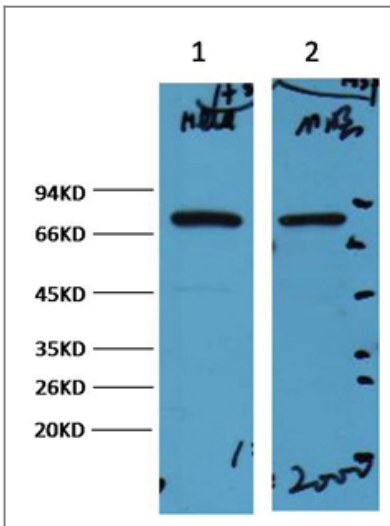
Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1,HSP70 Monoclonal Antibody(3G10) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control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



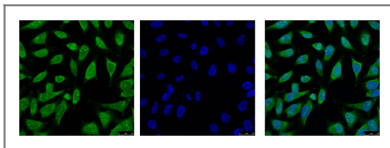
Immunohistochemical analysis of paraffin-embedded Rat-testis tissue. 1,HSP70 Monoclonal Antibody(3G10) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used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



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



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



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

Contact information

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HSP70 (3G10)
Mouse mAb

