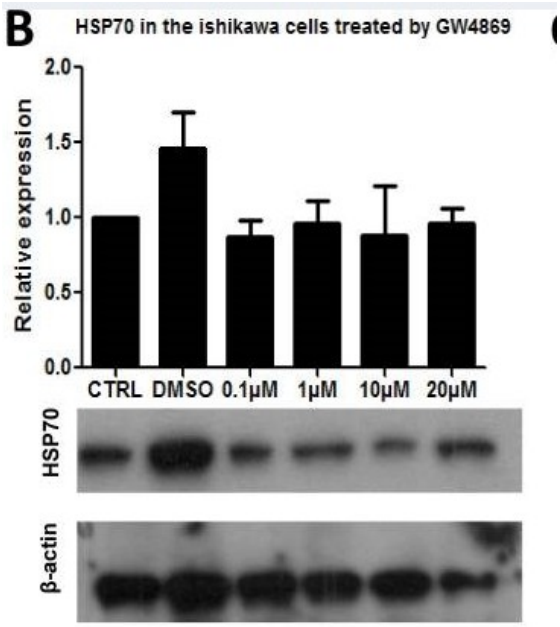
HSP70 Monoclonal Antibody(3G10)

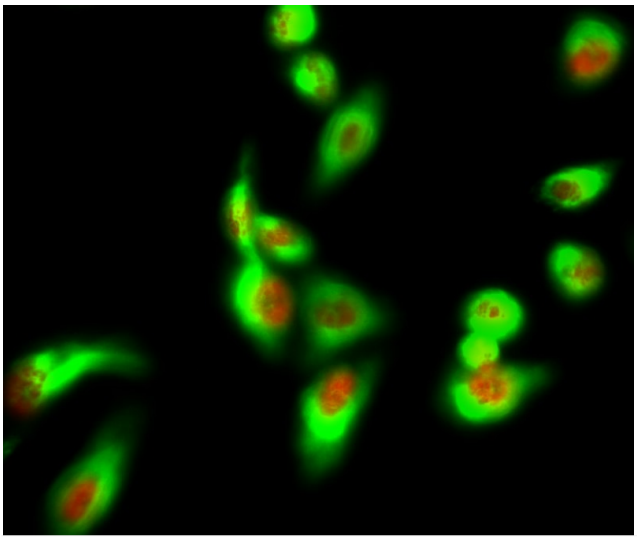
Catalog No	YP-Ab-03485
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF
Gene Name	HSPA1L/HSPA1A
Protein Name	Heat shock 70 kDa protein 1-like/Heat shock 70 kDa protein 1A/1B
Immunogen	Synthetic Peptide of HSP70
Specificity	The antibody detects endogenous HSP70 proteins.
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	WB: 1:1000-2000 IF: 1:100-200 IHC 1:50-300
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	70kD
Cell Pathway	zona pellucida receptor complex,nucleoplasm,mitochondrial matrix,cytosol,COP9 signalosome,cell body,blood microparticle,
Tissue Specificity	Expressed in spermatids.
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.,induction:Not induced by heat shock.,similarity:Belongs to the heat shock protein 70 family.,tissue specificity:Expressed in spermatids.,
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

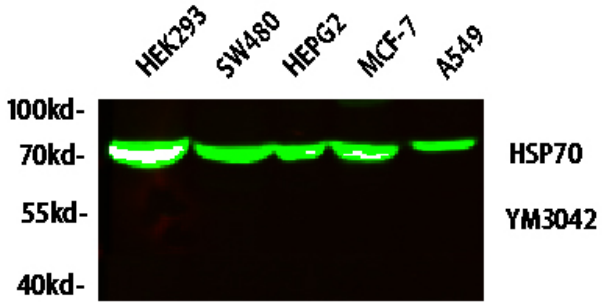
Products Images



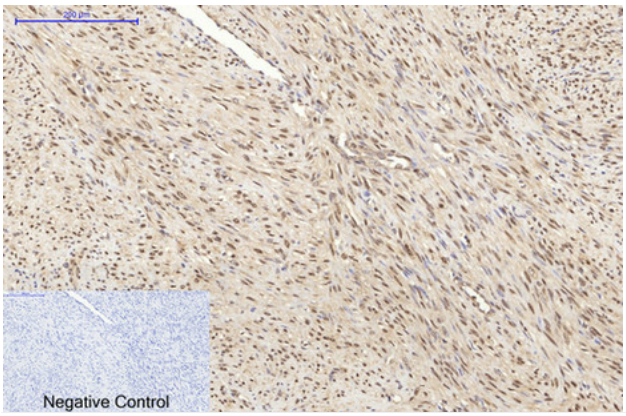
Niu, Ziru, et al. "Polymer-based precipitation preserves biological activities of extracellular vesicles from an endometrial cell line." PloS one 12.10 (2017): e0186534.



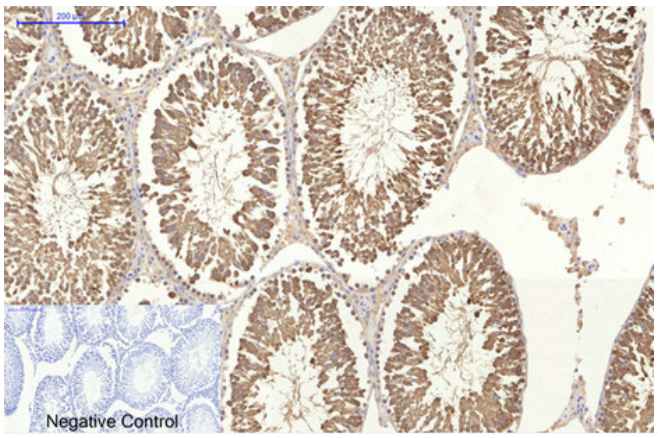
Immunofluorescence analysis of Hela cell. 1,AIM2 Polyclonal Antibody(red) was diluted at 1:200(4° overnight). HSP70 Monoclonal Antibody(3G10)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 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.