HSP70 Mouse Monoclonal Antibody(3G10)

Catalog	TDY062C	TDY062F
Quantity	50μL	100μL

Tel：010-82908854
Free：400-0620-621
Web：www.tdybio.com

For research use only.

Applications	Species Cross-Reactivity	Molecular Weight	Isotype
WB, IF, IHC	**H, M, R,Pg**	**~70KD**	**IgG1**

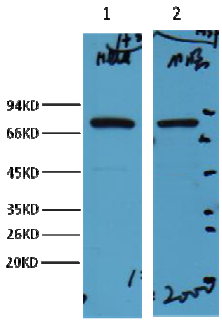
Storage Buffer & Condition: PBS, pH 7.4, containing 0.02% ***sodium azide*** as Preservative and 50% Glycerol. Store at ***-20°C***. ***Do not aliquot the antibody***.

Recommended dilutions: **WB: 1:1,000-2,000 IF: 1:100-200 IHC: 1:200-500**

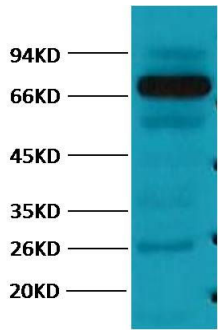
Optimal dilutions should be determined by the end user.

Specificity: HSP70 Mouse monoclonal antibody detects endogenous HSP70 proteins.

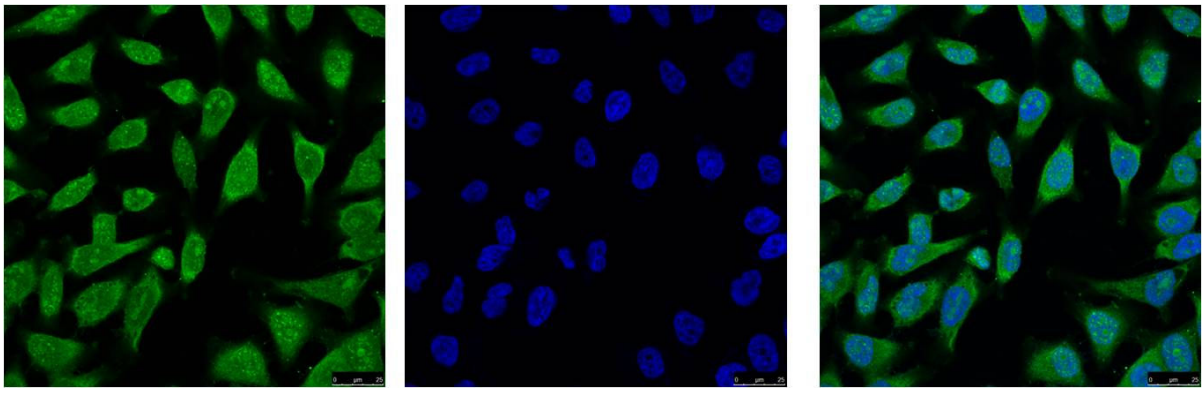
Background: The **70 kilodalton heat shock proteins** (**Hsp70**s) are a family of ubiquitously expressed heat shock proteins. Proteins with similar structure exist in virtually all living organisms. The Hsp70s are an important part of the cell's machinery for protein folding, and help to protect cells from stress. Hsp70 is usually in an ATP bound state. Hsp70 by itself is characterized by a very weak ATPase activity, such that spontaneous hydrolysis will not occur for many minutes. As newly synthesized proteins emerge from the ribosomes, the substrate binding domain of Hsp70 recognizes sequences of hydrophobic amino acid residues, and interacts with them. This spontaneous interaction is reversible, and in the ATP bound state Hsp70 may relatively freely bind and release peptides. However, the presence of a peptide in the binding domain stimulates the ATPase activity of Hsp70, increasing its normally slow rate of ATP hydrolysis.



Western blot analysis of 1) Hela, 2) Mouse Brain, with HSP70 mAb diluted at 1:2,000.

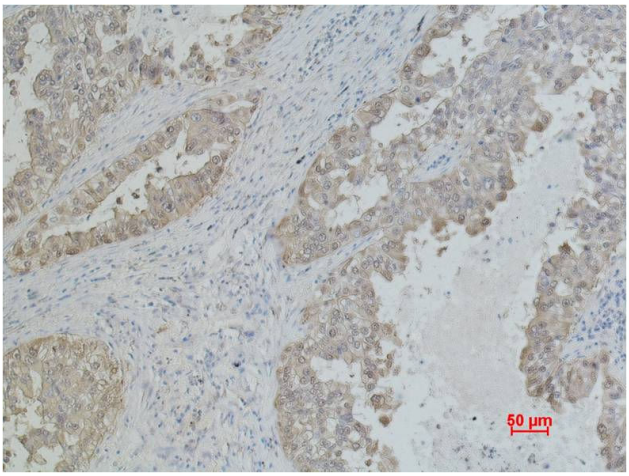


Western blot analysis of Pig Skeletal Muscle with HSP70 mAb diluted at 1:2,000.



IF analysis of Hela with TDY062(Left) and DAPI (Right) diluted at 1:100.

Applications: ***WB-Western blot IHC-Immunochemistry IF-Immunofluorescence IP-Immunoprecipitation ChIP-Chormatin Immunoprecipitation***
Reactivity: ***H-Human R-Rat M-Mouse Mk-Monkey Dg-Dog Ch-Chicken Hm-Hamster Rb-Rabbit Sh-Sheep Pg-Pig***



Immunohistochemical analysis of paraffin-embedded Human Lung caricnoma using HSP70 （TDY062）Mouse mAb diluted at 1:500.