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42-1038: Anti-HSP70/HSC70 Monoclonal Antibody (Clone : BB70) - ATTO 390

Clonality :	Monoclonal	
Clone Name :	BB70	
Application :	WB,IHC,IP	
Reactivity :	Human,Mouse,Rat,Bovine,Sheep,Dog,Guinea Pig ,Pig,Rabbit,Chicken Drosophila,Yeast	
Conjugate :	ATTO 390	
Gene ID :	423504	
Uniprot ID :	P08106	
Isotype :	Mouse lgG2a	
Immunogen Information : Chicken HSP70/HSP90 complex		

Description

HSP70 genes encode abundant heat-inducible 70-kDa HSPs (HSP70s). In most eukaryotes HSP70 genes exist as part of a multigene family. They are found in most cellular compartments of eukaryotes including nuclei, mitochondria, chloroplasts, the endoplasmic reticulum and the cytosol, as well as in bacteria. The genes show a high degree of conservation, having at least 50% identity. The N-terminal two thirds of HSP70s are more conserved than the C-terminal third. HSP70 binds ATP with high affinity and possesses a weak ATPase activity which can be stimulated by binding to unfolded proteins and synthetic peptides. When HSC70 (constitutively expressed) present in mammalian cells was truncated, ATP binding activity was found to reside in an N-terminal half. The structure of this ATP binding domain displays multiple features of nucleotide binding proteins. All HSP70s, regardless of location, bind proteins, particularly unfolded ones. The molecular chaperones of the HSP70 family recognize and bind to nascent polypeptide chains as well as partially folded intermediates of proteins preventing their aggregation and misfolding. The binding of ATP triggers a critical conformational change leading to the release of the bound substrate protein. The universal ability of HSP70s to undergo cycles of binding to and release from hydrophobic stretches of partially unfolded proteins determines their role in a great variety of vital intracellular functions such as protein synthesis, protein folding and oligomerization and protein transport.

Product Info

Amount :	200 µg
Purification :	Protein G Purified
Content :	PBS pH7.2, 50% glycerol, 0.09% sodium azide
Storage condition :	Store the antibody at 4°C

Application Note

WB (1:1000), IHC (1:200), ICC/IF (1:200); optimal dilutions for assays should be determined by the user.

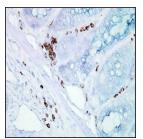


Figure1 : Mouse Anti-Hsp70 Antibody [BB70] used in Immunohistochemistry (IHC) on Mouse inflamed colon

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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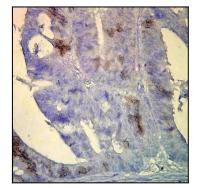


Figure 2 : Mouse Anti-Hsp70 Antibody [BB70] used in Immunohistochemistry (IHC) on Human colon carcinoma

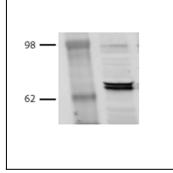
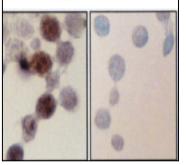


Figure 3 : Mouse Anti-Hsp70 Antibody [BB70] used in Western Blot (WB) on Bovine MDBK cell lysates

Nuclear smears



Anti-Hap70/ Has*0.8870 160kDa 110kDA 80kDA 60kDA 40kDA 30kDA 30kDA Figure 4 : Mouse Anti-Hsp70 Antibody [BB70] used in Immunocytochemistry/Immunofluorescence (ICC/IF) on Rat hepatocyte nuclei

Figure 5 : Mouse Anti-Hsp70 Antibody [BB70] used in Western Blot (WB) on Human HeLa cell lysates



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Liver sections

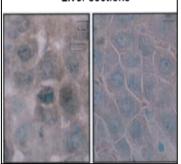


Figure 6 : Mouse Anti-Hsp70 Antibody [BB70] used in Immunohistochemistry (IHC) on Rat hepatocytes