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42-1351: Anti-HSC70 (HSP73) Monoclonal Antibody (Clone : 1F2-H5) - ATTO 700(Discontinued)

Clonality :	Monoclonal
Clone Name :	1F2-H5
Application :	WB,IHC,ICC/IF,IP,ELISA
Reactivity :	Human,Mouse,Rat
Conjugate :	ATTO 700
Gene :	HSPA8
Gene ID :	3312
Uniprot ID :	P11142
Alternative Name :	HSPA8,HSC70,HSP73,HSPA10
Isotype :	Mouse IgG2a Kappa
Immunogen Information :	Full length human HSC70

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 fragment of 44 kDa which lacked peptide binding capacity. Polypeptide binding ability therefore resided within the C-terminal half. The structure of this ATP binding domain displays multiple features of nucleotide binding proteins. When cells are subjected to metabolic stress (e.g., heat shock) a member of the HSP 70 family, HSP 70 (HSP72), is expressed; HSP 70 is highly related to HSC70 (>90% sequence identity). Constitutively expressed HSC70 rapidly forms a stable complex with the highly inducible HSP70 in cells following heat shock. The interaction of HSC70 with HSP 70 is regulated by ATP. These two heat shock proteins move together in the cell experiencing stress. Furthermore, research on HSC70 has implicates it with a role in facilitating the recovery of centrosomal structure and function after heat shock.

Product Info

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

Application Note

WB (1:1000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

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

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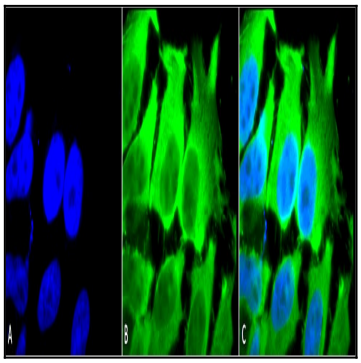


Figure1 : Mouse Anti-Hsc70 (Hsp73) Antibody [1F2-H5] used in Immunocytochemistry/Immunofluorescence (ICC/IF) on Human Heat Shocked HeLa Cells

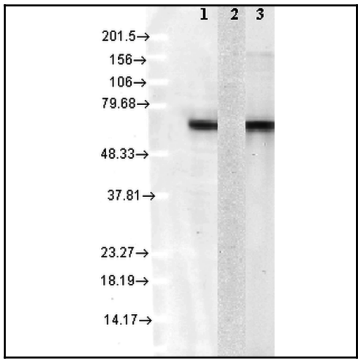


Figure 2 : Mouse Anti-Hsc70 Antibody [1F2-H5] used in Western Blot (WB) on Human Cell lysates

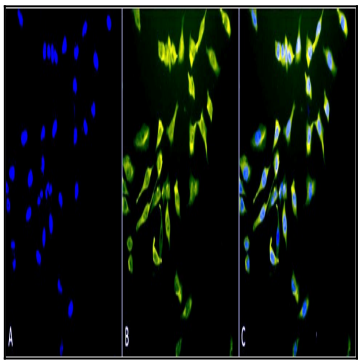


Figure 3 : Mouse Anti-Hsc70 (Hsp73) Antibody [1F2-H5] used in Immunocytochemistry/Immunofluorescence (ICC/IF) on Human Heat Shocked HeLa Cells

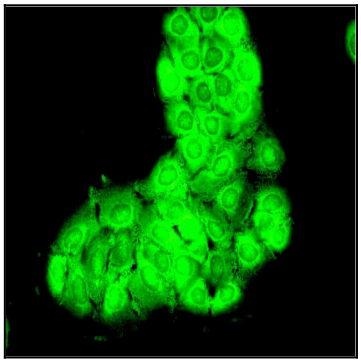


Figure 4 : Mouse Anti-Hsc70 Antibody [1F2-H5] used in Immunocytochemistry/Immunofluorescence (ICC/IF) on Human HaCaT cells

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