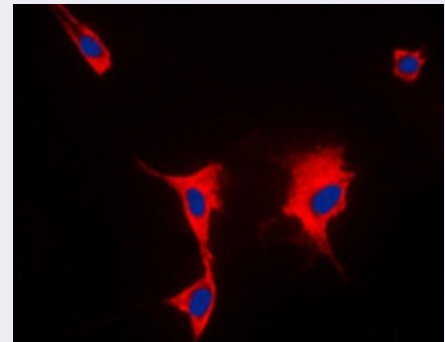


## Heat Shock Proteins

### What are Heat Shock Proteins?

Heat shock proteins are divided into several classes, they are found in every living organism. As well as being constitutively expressed regardless of circumstances, HSPs were named because they protect cellular proteins during extreme heat.

It is now recognised that HSPs are produced in response to extreme cold, exposure to UV, pH changes, toxicity, oxidative stress, nutrient deficiency, disease (including cancer) and tissue damage.



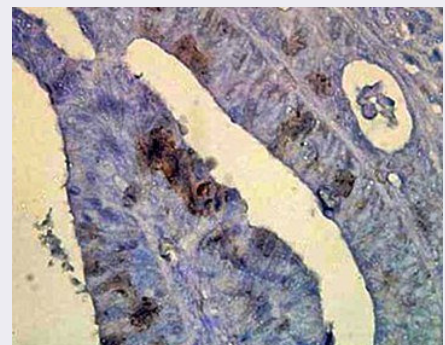
*Immunofluorescence analysis of HeLa cells lysates using HSP90AA1 antibody - orb214065*

### What Heat Shock Proteins do

HSPs help to maintain homeostasis and stability of cellular proteins in many ways, they often work together to perform a combination of events.

With some functions not yet understood, it is known that many HSPs have multiple roles.

HSPs have the ability to form complexes with substrate proteins and with each other to aid synthesis, assembly, folding, quality control, import and export of proteins as well as playing a role in preventing aggregation and regulating apoptosis.



*IHC-P of Human colon tissue in inflammatory cells using Hsp70 antibody - orb67306*

### Supporting Your Heat Shock Protein Research

HSPs form complexes with each other, with kinases in cellular pathways and other molecules including antibodies, making them a valuable research tool. Biorbyt support current and future research of heat shock proteins. We supply a wide range of high quality products for your HSP research, helping you achieve robust and reliable results. See the table overleaf for targets in this important research area and the product types Biorbyt is able to offer to help with your heat shock protein research. Speak to our advisors who will be happy to help you choose the right product to obtain accurate and reliable data.

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Target	Monoclonal	Polyclonal	Protein	Kit
HSP70	X	X	X	X
HSP70/HSC70	X			
HSP70 Acetyl Lys77		X		
TbHsp70		X		
GRP94	X	X	X	X
HSP90	X	X	X	X
HSP90 alpha	X	X	X	
HSP60	X	X	X	X
HSP27	X	X	X	X
HSF1	X	X	X	X
HSF2	X	X	X	X
GRP75	X	X		
HSP90 alpha/beta	X	X		
HSP90 beta	X	X	X	X
FKBP51	X	X		X
FKBP52	X	X	X	X
Alpha A Crystallin	X	X	X	
HSP40	X	X	X	X
HSC70	X	X	X	X
P23	X	X	X	X
Alpha B Crystallin	X	X	X	X
AHA1	X	X	X	
AHA1p		X		
AHA2		X	X	
HDEL	X			
HSP22	X	X		X
TRAP1	X	X		X
TSP23	X			
GRP78	X	X	X	X
HSP47	X	X		X
GRP170	X	X		X
TCP1 alpha	X	X		
Tbj51		X		
HOP		X	X	
HSP110		X		
HSPB2	X	X	X	X
Cpn10		X	X	X
CDC37	X	X	X	
HSP65			X	X