



# Rabbit Anti-Human Citrullinated Hsp70 (R357) polyclonal antibody (CABT-L4580)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	This Pab can be used for Western blot and ELISA applications.
<b>Immunogen</b>	Synthetic peptide corresponding to an internal region of human HSP70 with a citrulline at residue 357
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Peptide affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, WB
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	500 µl
<b>Buffer</b>	PBS, pH 7.2, 50% glycerol, 0.1% BSA, and 0.02% sodium azide
<b>Preservative</b>	0.02% sodium azide
<b>Storage</b>	At -20°C
<b>Ship</b>	Wet ice

# BACKGROUND

## Introduction

Heat shock protein 70s (Hsp70s) are abundant and stress-inducible 70 kDa molecular chaperone proteins encoded by a highly conserved, multigene family. They are monomeric proteins that can be divided into two functional domains: an N-terminal ATPase domain and a substrate binding domain that contains a highly conserved EEVD motif at its C-terminus. Hsp70s are found in the cytosol, nuclei, endoplasmic reticulum, mitochondria, and chloroplasts of eukaryotes, as well as in bacteria. They function as molecular chaperones that assist in a wide range of cellular processes, including refolding of aggregated or misfolded proteins, co- and post-translational folding and assembly of nascent peptides, membrane translocation of secretory and organellar proteins, controlling activity of regulatory nuclear receptors, kinases and transcription factors, as well as cooperativity with the Hsp90 chaperone system in eukaryotes.

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## Keywords

Heat Shock Protein 70;HspA1A

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# GENE INFORMATION

## UniProt ID

[P0DMV8](#)

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