

For Research Use Only

# HSP70 Recombinant monoclonal antibody, PBS Only

Catalog Number: 80735-1-PBS



## Basic Information

Catalog Number:

80735-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1446

GenBank Accession Number:

BC009322

GeneID (NCBI):

3303

UNIPROT ID:

PODMV8

Full Name:

heat shock 70kDa protein 1A

Calculated MW:

70 kDa

Observed MW:

70 kDa

Purification Method:

Protein A purification

CloneNo.:

4E10

## Applications

Tested Applications:

WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse, rat, yeast

## Background Information

HSPA1A, collectively known as HSP70 (also referred to HSP72), is a stress-inducible member of heat-shock protein 70 (HSP70) proteins which are highly conserved chaperons implicated in protein folding, protein refolding, protein transport, and protein targeting. Encoded by two closely linked, intronless and stress-inducible genes, HSPA1A and HSPA1B differ by only two amino acids and are believed to be fully interchangeable proteins. HSPA1A is a cytosol nuclear protein able to translocate between cytoplasm and nucleus. Generally, HSPA1A is thought to be expressed in unstressed normal cells at low or undetectable levels. Expression of HSPA1A protein can be highly activated by various stressful stimuli. Significant up-regulation of HSPA1A has been found in various tumors. Recently it has been reported that HSPA1A can be constitutively expressed in selected cell types. HSP70 is also used as exosomal marker

## Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

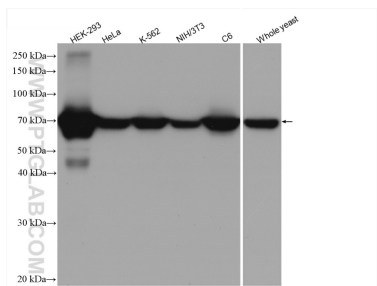
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

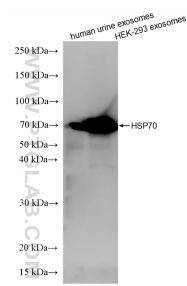
W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

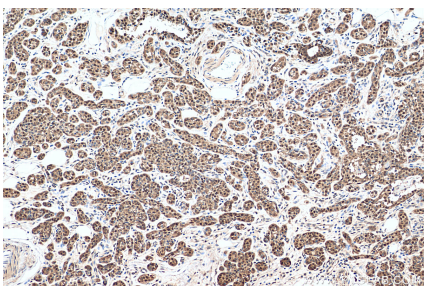
## Selected Validation Data



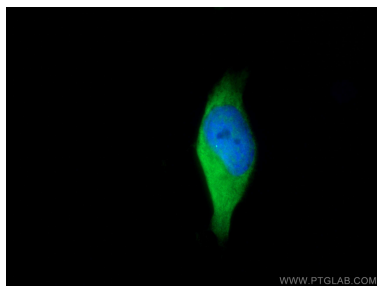
Various lysates were subjected to SDS PAGE followed by western blot with 80735-1-RR (HSP70 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80735-1-PBS in a different storage buffer formulation.



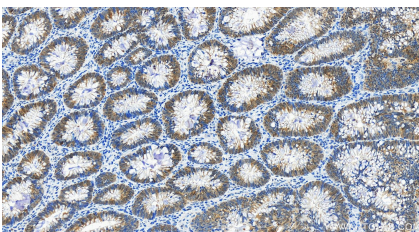
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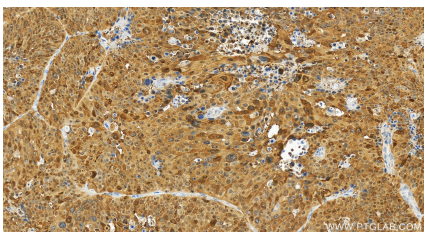
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 80735-1-RR (HSP70 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80735-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using HSP70 antibody (80735-1-RR, Clone: 4E10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 80735-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 80735-1-RR (HSP70 antibody) at dilution of 1:6000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80735-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung squamous cell carcinoma tissue slide using 80735-1-RR (HSP70 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80735-1-PBS in a different storage buffer formulation.