

Product datasheet for CF500827

OriGene Technologies, Inc.

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HSP70-1A (HSPA1A) Mouse Monoclonal Antibody [Clone ID: OTI1B2]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI1B2
Applications: IHC, WB

Recommended Dilution: WB 1:2000, IHC 1:50

Reactivity: Human, Dog, Monkey, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human HSPA1A (NP_005336) produced in

HEK293T cell.

Formulation: Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)

Reconstitution Method: For reconstitution, we recommend adding 100uL distilled water to a final antibody

concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 70.0 kDa

Gene Name: heat shock protein family A (Hsp70) member 1A

Database Link: NP 005336

Entrez Gene 24472 RatEntrez Gene 193740 MouseEntrez Gene 3303 Human

P0DMV8





Background:

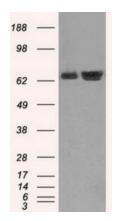
This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjuction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins.

Synonyms: HEL-S-103; HSP70-1; HSP70-1A; HSP70.1; HSP70I; HSP72; HSPA1

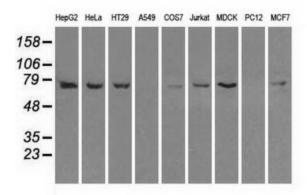
Protein Pathways: Antigen processing and presentation, Endocytosis, MAPK signaling pathway, Prion diseases,

Spliceosome

Product images:

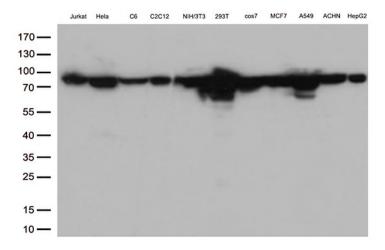


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY HSPA1A ([RC200270], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HSPA1A (1:2000).

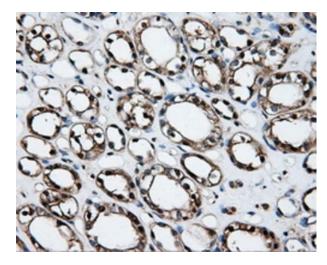


Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-HSPA1A monoclonal antibody.

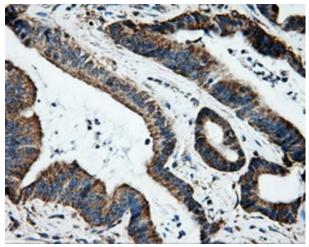




Western blot analysis of extracts (35ug) from 11 cell lines lysates by using anti-HSPA1A monoclonal antibody (1:500).

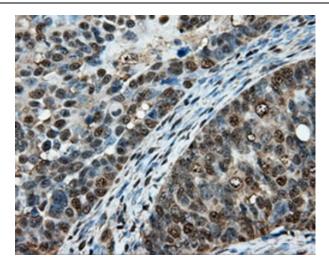


Immunohistochemical staining of paraffinembedded Kidney tissue within the normal limits using anti-HSPA1Amouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

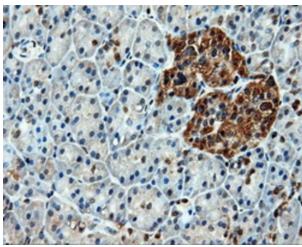


Immunohistochemical staining of paraffinembedded liver tissue within the normal limits using anti-HSPA1Amouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

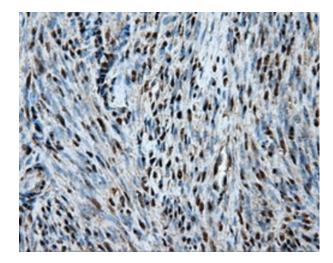




Immunohistochemical staining of paraffinembedded Adenocarcinoma of ovary tissue using anti-HSPA1Amouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

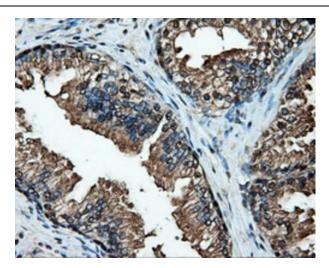


Immunohistochemical staining of paraffinembedded pancreas tissue within the normal limits using anti-HSPA1Amouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffinembedded endometrium tissue within the normal limits using anti-HSPA1Amouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.





Immunohistochemical staining of paraffinembedded prostate tissue within the normal limits using anti-HSPA1Amouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.