10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HSPA1A/HSPA1B Antibody (Y41)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7574a

Product Information

Application	IHC-P, WB, E
Primary Accession	P08107
Other Accession	P11147, P63018, P63017, P11142, Q90473, P19378, O73885, P19120, P09446, P48741, Q04967, P17066, P22202, P09435, P14659, P17156, P54652, P34933, Q07439, P02827, P08106, P55063, A5A8V7, P16627, Q4R888, P34931, P0CB32, Q6S4N2, P17879, Q27965, Q61696, Q27975
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat, Zebrafish, Hamster, Monkey, Pig, Chicken, Xenopus, Bovine, C.Elegans, Drosophila
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB12700
Antigen Region	19-48

Additional Information

Other Names	Heat shock 70 kDa protein 1A/1B, Heat shock 70 kDa protein 1/2, HSP70-1/HSP70-2, HSP701/HSP702, HSPA1A, HSPA1, HSX70
Target/Specificity	This HSPA1A/HSPA1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-48 amino acids from human HSPA1A/HSPA1B.
Dilution	IHC-P~~1:100 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HSPA1A/HSPA1B Antibody (Y41) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

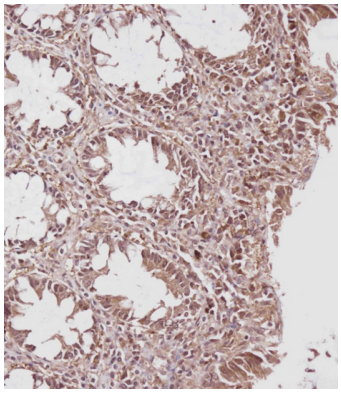
Background

HSPA1A is a member of the heat shock protein 70 family. In conjunction 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.

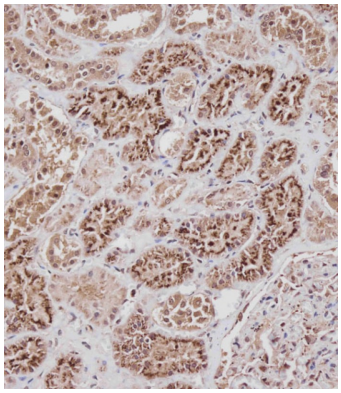
References

Mueller, T., et al., Transplantation 78(2):292-295 (2004).
Fekete, A., et al., Pediatr. Res. 54(4):452-455 (2003).
Broquet, A.H., et al., J. Biol. Chem. 278(24):21601-21606 (2003).
Bruce, C.R., et al., Diabetes 52(9):2338-2345 (2003).
Anwar, A., et al., J. Biol. Chem. 277(16):14060-14067 (2002).

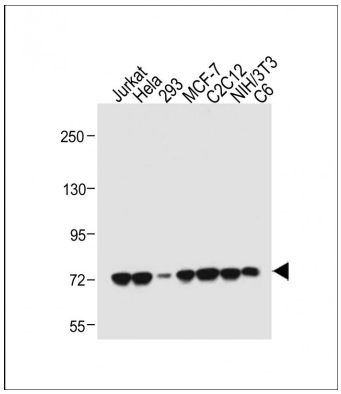
Images



Immunohistochemical analysis of AP7574a on paraffin-embedded Human colon tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of AP7574a on paraffin-embedded Human kidney tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



All lanes : Anti-HSPA1A(Y41) Antibody at 1:4000 dilution Lane 1: Jurkat whole cell lysate Lane 2: Hela whole cell lysate Lane 3: 293 whole cell lysate Lane 4: MCF-7 whole cell lysate Lane 5: C2C12 whole cell lysate Lane 6: NIH/3T3 whole cell lysate Lane 7: C6 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 70 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- Characterization of cadmium chloride-induced BiP accumulation in Xenopus laevis A6 kidney epithelial cells.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.