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Anti-HSPA6 / HSP70B' Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17281

Product Information

Application	WB, IHC-P, E
Primary Accession	P17066
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	71028

Additional Information

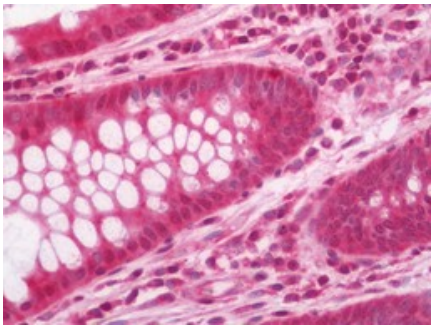
Gene ID	3310
Alias Symbol	HSPA6
Other Names	HSPA6, Heat shock 70 kd protein b, Heat shock 70 kDa protein 6, Heat shock 70 kDa protein B, Heat shock 70 kd protein 7, HSP70B
Target/Specificity	Human HSPA6
Reconstitution & Storage	PBS, pH 7.4, 0.03% Proclin 300, 50% glycerol. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.
Precautions	Anti-HSPA6 / HSP70B' Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

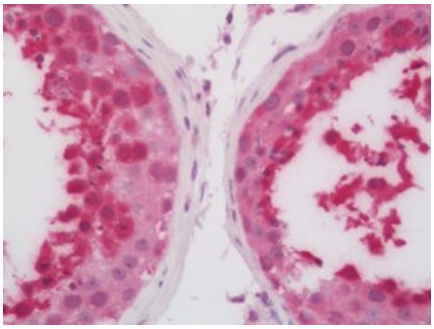
Name	HSPA6
Synonyms	HSP70B'
Function	Molecular chaperone implicated in a wide variety of cellular processes, including protection of the proteome from stress, folding and transport of newly synthesized polypeptides, activation of proteolysis of misfolded proteins and the formation and dissociation of protein complexes. Plays a pivotal role in the protein quality control system, ensuring the correct folding of proteins, the re-folding of misfolded proteins and controlling the targeting of proteins for subsequent degradation. This is achieved through cycles of ATP binding, ATP hydrolysis and ADP release, mediated by co-chaperones. The affinity for polypeptides is regulated by its nucleotide bound state. In the ATP-bound form, it has a low affinity for substrate proteins. However, upon hydrolysis of the ATP to ADP, it undergoes a conformational change that

increases its affinity for substrate proteins. It goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release (PubMed:26865365).

Images



Human Colon: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)