

## HSPA5 RABBIT PAB

**Cat.#:** S219838

**Product Name:** Anti-HSPA5 Rabbit Polyclonal Antibody

**Synonyms:** BIP; GRP78; HEL-S-89n

**UNIPROT ID:** P11021 (Gene Accession - NP\_005338)

**Background:** The protein encoded by this gene is a member of the heat shock protein 70 (HSP70) family. This protein localizes to the lumen of the endoplasmic reticulum (ER) where it operates as a typical HSP70 chaperone involved in the folding and assembly of proteins in the ER and is a master regulator of ER homeostasis. During cellular stress, as during viral infection or tumorigenesis, this protein interacts with the transmembrane stress sensor proteins PERK (protein kinase R-like endoplasmic reticulum kinase), IRE1 (inositol-requiring kinase 1), and ATF6 (activating transcription factor 6) where it acts as a repressor of the unfolded protein response (UPR) and also plays a role in cellular apoptosis and senescence. Elevated expression and atypical translocation of this protein to the cell surface has been reported in viral infections and some types of cancer cells. At the cell surface this protein may facilitate viral attachment and entry to host cells. This gene is a therapeutic target for the treatment of coronavirus diseases and chemoresistant cancers.

**Immunogen:** Synthetic peptide of human HSPA5

**Applications:** ELISA, WB, IHC

**Recommended Dilutions:** IHC: 50-200;WB: 500-2000;ELISA: 2000-5000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

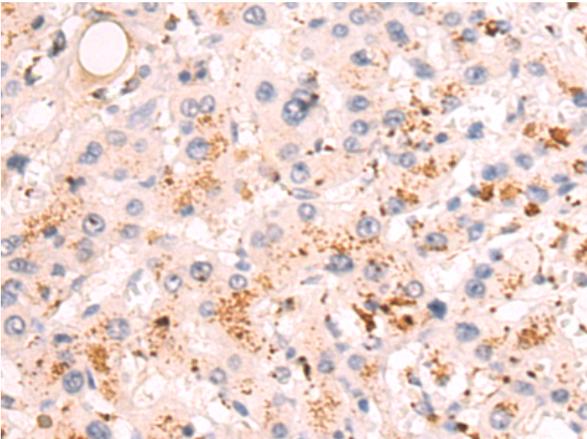
**Purification:** Antigen affinity purification

**Species Reactivity:** Human, Mouse, Rat

**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Cell Biology

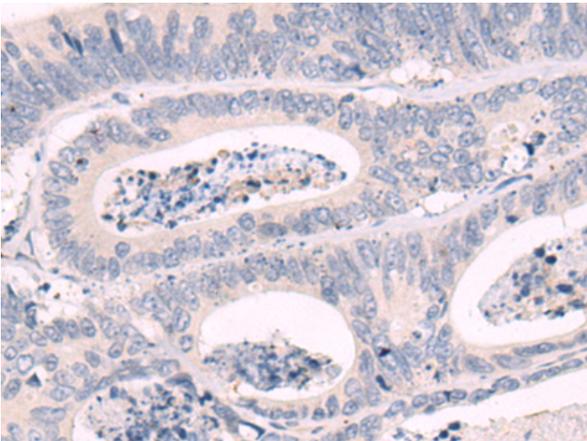
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



Immunohistochemistry analysis of paraffin embedded Human liver cancer tissue using 219838(HSPA5 Antibody) at a dilution of 1/50(Cytoplasm).



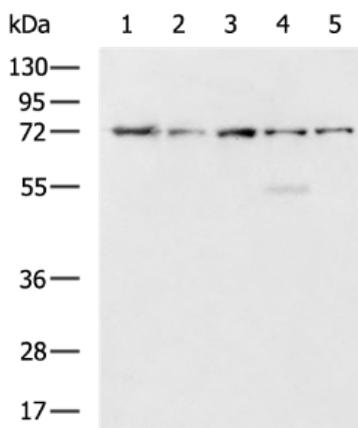
In comparison with the IHC on the left, the same paraffin-embedded Human liver cancer tissue is first treated with the synthetic peptide and then with 219838(Anti-HSPA5 Antibody) at dilution 1/50.



The image on the left is immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using 219838(Anti-HSPA5 Antibody) at a dilution of 1/50.



In comparison with the IHC on the left, the same paraffin-embedded Human colorectal cancer tissue is first treated with synthetic peptide and then with D260466(Anti-HSPA5 Antibody) at dilution 1/50.



Gel: 8%SDS-PAGE, Lysate: 40 µg;  
Lane 1-4: Mouse liver tissue, HeLa, HepG2, A375 cell lysates;  
Primary antibody: 219838(HSPA5 Antibody) at dilution 1/650;  
Secondary antibody: HRP-conjugated Goat anti rabbit IgG at 1/5000 dilution;  
Exposure time: 1 minute



# Product Description

Pioneering GTPase and Oncogene Product Development since 2010

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