

Recombinant Full Length Human HSPA5 Protein, His&Avi tagged, Biotinylated

Cat. No. HSPA5-01HB Lot. No. (See product label)

SPECIFICATION

Product Overview	Biotinylated recombinant Full Length Human HSPA5 Protein (1-654 aa) with His&Avi tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-654 aa
Conjugation/Label	Biotin
Description	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

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	therapeutic target for the treatment of coronavirus diseases and chemoresistant cancers.
Labeling Efficiency	1.16 by HABA
Molecular Mass	74 kDa
AASequence	EEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIANDQGNRITPSYVAFTPEGERLI GDAAKNQLTSNPENTVFDKRLIGRTWNPDSVQQDIKFLPFKVVEKTKPYIQVDIG GGQTKTFAPEEISAMVLTKMKETAAYLGKKVTHAVVTPAYFNDAQRQATKDAGTI AGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVFEVVATNG DTHLGGEDFDQVRMEHFIKLYKKKTGKDVRKDNRAVQKLRRVEKAKRALSSQHQ ARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDSDLKKSDIDEIVLVG GSTRIPIQQLVKEFFNGKEPSRGINPDEAVAYGAAVQAGVLSGDQDTGDLVLLDVC PLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTVTIKVYGERPLTKDNHLL GTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIE RMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGLSSEDKETMEK AVEEKIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDELH HHHHHHHHGLNDIFEAQKIEWHE
Endotoxin	< 1 EU/mg by LAL
Purity	> 95% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile PBS, pH7.4
Concentration	1.74 mg/mL by BCA

GENE INFORMATION

Gene Name HSPA5 heat shock protein family A (Hsp70) member 5 [Homo sapiens (human)]

Official Symbol HSPA5

Synonyms HSPA5; heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa); GRP78, heat shock 70kD protein 5 (glucose regulated protein, 78kD); 78 kDa glucose-regulated protein; BiP; immunoglobulin heavy chain-binding protein; endoplasmic reticulum lumenal Ca(2+)-binding protein grp78; BIP; MIF2; GRP78; FLJ26106;

Gene ID 3309

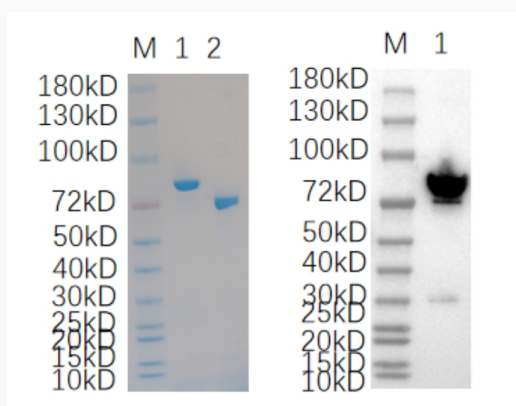
mRNA Refseq NM_005347

Protein Refseq NP_005338

MIM 138120

UniProt ID P11021

SDS-PAGE and WB



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Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified HSPA5. 1. HSPA5: 1 μ g 2. BSA: 1 μ g

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