

Anti-HSPA5 / GRP78 / BiP Antibody (C-Terminus)

Rabbit Anti Human Polyclonal Antibody Catalog # ALS18255

Product Information

Application	WB, IHC-P, IF, ICC, IP
Primary Accession	<u>P11021</u>
Predicted	Human, Mouse, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	72333
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	3309	
Alias Symbol Other Names	HSPA5 HSPA5, BIP, Heat shock 70 kDa protein 5, MIF2, GRP-78, GRP78	
Target/Specificity	Recognizes endogenous levels of GRP78 protein.	
Reconstitution & Storage	Immunoaffinity purified	
Precautions	Anti-HSPA5 / GRP78 / BiP Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.	

Protein Information

HSPA5 (<u>H</u>	<u>5NC:5238</u>)
and qualit PubMed:2 correct fo interaction DNAJC10/ the EIF2Al (PubMed: PubMed:3 DNAJB9/E dimerizati binds and Accumula release of	ic reticulum chaperone that plays a key role in protein folding control in the endoplasmic reticulum lumen (PubMed:2294010, 769672, PubMed:23990668, PubMed:28332555). Involved in the ing of proteins and degradation of misfolded proteins via its with DNAJC10/ERdj5, probably to facilitate the release of Rdj5 from its substrate (By similarity). Acts as a key repressor of P/PERK and ERN1/IRE1- mediated unfolded protein response (UPR) 907036, PubMed:1550958, PubMed:19538957, 739529). In the unstressed endoplasmic reticulum, recruited by dj4 to the luminal region of ERN1/IRE1, leading to disrupt the n of ERN1/IRE1, thereby inactivating ERN1/IRE1 (By similarity). Also nactivates EIF2AK3/PERK in unstressed cells (PubMed:11907036). on of misfolded protein in the endoplasmic reticulum causes ISPA5/BiP from ERN1/IRE1 and EIF2AK3/PERK, allowing their rization and subsequent activation (PubMed:11907036). Plays an
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auxiliary role in post-translational transport of small presecretory proteins across endoplasmic reticulum (ER). May function as an allosteric modulator for SEC61 channel-forming translocon complex, likely cooperating with SEC62 to enable the productive insertion of these precursors into SEC61 channel. Appears to specifically regulate translocation of precursors having inhibitory residues in their mature region that weaken channel gating. May also play a role in apoptosis and cell proliferation (PubMed:<u>26045166</u>).

Cellular LocationEndoplasmic reticulum lumen. Melanosome. Cytoplasm
{ECO:0000250|UniProtKB:P20029}. Cell surface Note=Identified by mass
spectrometry in melanosome fractions from stage I to stage IV
(PubMed:12643545). Localizes to the cell surface of epithelial cells in response
to high levels of free iron (PubMed:20484814, PubMed:24355926,
PubMed:27159390)

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