

Anti-HSPA5 / GRP78 / BiP Antibody (C-Terminus)
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18255**Specification****Anti-HSPA5 / GRP78 / BiP Antibody (C-Terminus) - Product Information**

Application	WB, IHC-P, IF, ICC, IP
Primary Accession	P11021
Predicted	Human, Mouse, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	72333

Anti-HSPA5 / GRP78 / BiP Antibody (C-Terminus) - Additional Information**Gene ID** 3309

Alias Symbol	HSPA5
Other Names	
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.

Anti-HSPA5 / GRP78 / BiP Antibody (C-Terminus) - Protein Information**Name** HSPA5 ([HGNC:5238](#))**Function**

Endoplasmic reticulum chaperone that plays a key role in protein folding and quality control in the endoplasmic reticulum lumen (PubMed:2294010, PubMed:23769672, PubMed:23990668, PubMed:28332555). Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC10/ERdj5, probably to facilitate the release of DNAJC10/ERdj5 from its substrate (By similarity). Acts as a key repressor of the ERN1/IRE1-mediated unfolded protein response (UPR) (PubMed:1550958, PubMed:19538957). In the unstressed endoplasmic reticulum, recruited by DNAJB9/ERdj4 to the luminal region of ERN1/IRE1,

leading to disrupt the dimerization of ERN1/IRE1, thereby inactivating ERN1/IRE1 (By similarity). Accumulation of misfolded protein in the endoplasmic reticulum causes release of HSPA5/BiP from ERN1/IRE1, allowing homodimerization and subsequent activation of ERN1/IRE1 (By similarity). Plays an 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:26045166).

Cellular Location

Endoplasmic 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)

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

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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