

Datasheet for ABIN673554
anti-GRP78 antibody (AA 251-360)

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Overview

Quantity:	100 µL
Target:	GRP78 (HSPA5)
Binding Specificity:	AA 251-360
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRP78 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human GRP78
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	GRP78 (HSPA5)
Alternative Name:	GRP78 (HSPA5 Products)

Target Details

Background:	Synonyms: BIP, MIF2, GRP78, HEL-S-89n, 78 kDa glucose-regulated protein, GRP-78, Endoplasmic reticulum luminal Ca(2+)-binding protein grp78, Heat shock 7 kDa protein 5, Immunoglobulin heavy chain-binding protein, HSPA5 Background: Probably plays a role in facilitating the assembly of multimeric protein complexes inside the endoplasmic reticulum. Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC1, probably to facilitate the release of DNAJC1 from its substrate.
Gene ID:	3309
UniProt:	P11021
Pathways:	Thyroid Hormone Synthesis , ER-Nucleus Signaling

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Handling

Expiry Date: 12 months

Publications

Product cited in: Xia, Ji, Xu, Lin, Wang, Xia, Lv, Song, Ma, Chen: "Knockout of MARCH2 inhibits the growth of HCT116 colon cancer cells by inducing endoplasmic reticulum stress." in: **Cell death & disease**, Vol. 8, Issue 7, pp. e2957, (2018) ([PubMed](#)).

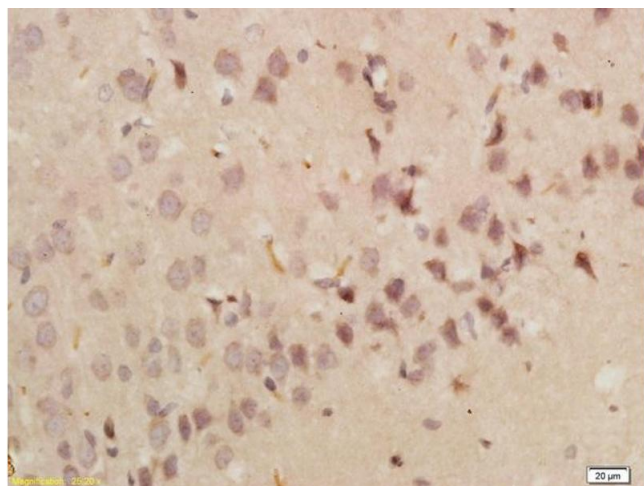
Chen, Wang, Chen, Wang, Gui, Dai, Fang, Zhang, Lu: "Influence of resveratrol on endoplasmic reticulum stress and expression of adipokines in adipose tissues/adipocytes induced by high-calorie diet or palmitic acid." in: **Endocrine**, Vol. 55, Issue 3, pp. 773-785, (2017) ([PubMed](#)).

Tian, Liu, Qu: "Role of endoplasmic reticulum stress on cisplatin resistance in ovarian carcinoma." in: **Oncology letters**, Vol. 13, Issue 3, pp. 1437-1443, (2017) ([PubMed](#)).

Wei, Gao, Wang, Zhao, Sun: "Excessive fluoride induces endoplasmic reticulum stress and interferes enamel proteinases secretion." in: **Environmental toxicology**, Vol. 28, Issue 6, pp. 332-41, (2013) ([PubMed](#)).

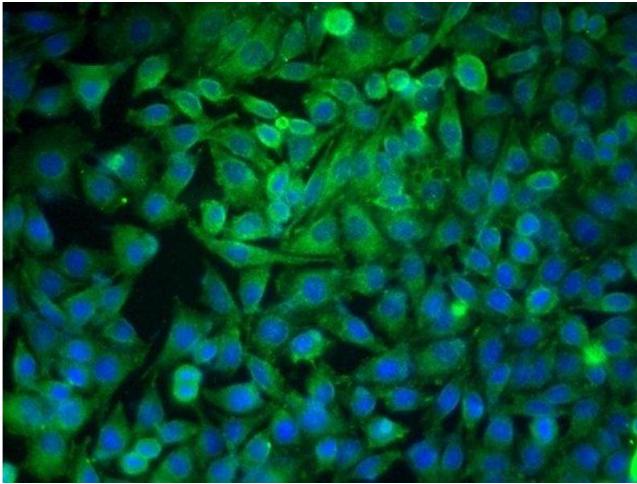
Du, Zhou, Jia, Huang: "SelK is a novel ER stress-regulated protein and protects HepG2 cells from ER stress agent-induced apoptosis." in: **Archives of biochemistry and biophysics**, Vol. 502, Issue 2, pp. 137-43, (2010) ([PubMed](#)).

Images



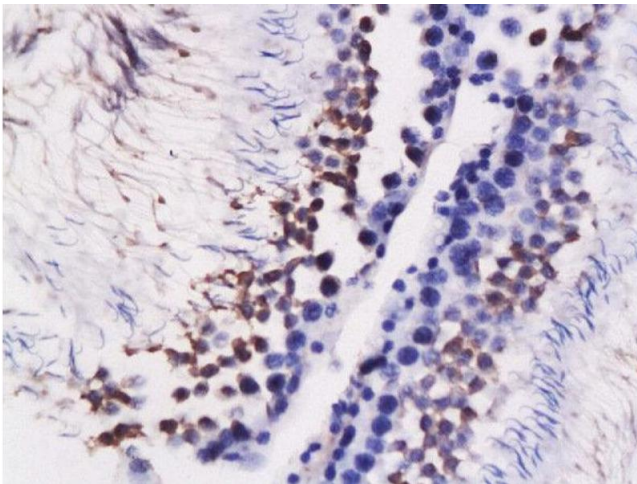
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-GRP78 Polyclonal Antibody, Unconjugated (ABIN673554) followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence (Cultured Cells)

Image 2. Image provided by One World Lab validation program. SMMC7721 cells probed with Rabbit Anti-GRP78 Polyclonal Antibody at 1:100 for 60 minutes at room temperature followed by Goat Anti-Rabbit IgG (H+L) Alexa Fluor 488 Conjugated secondary antibody.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded rat testis labeled with Rabbit Anti-GRP78 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN673554.