

GRP78 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Dog, Human, Mouse, Rat
Published Species	Rat, Hamster, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues C T(643) G E E D T S E K D E L(654) of rat GRP78.
Form	Lyophilized
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_559362

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	18 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	5 µg/mL	2 Publications
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

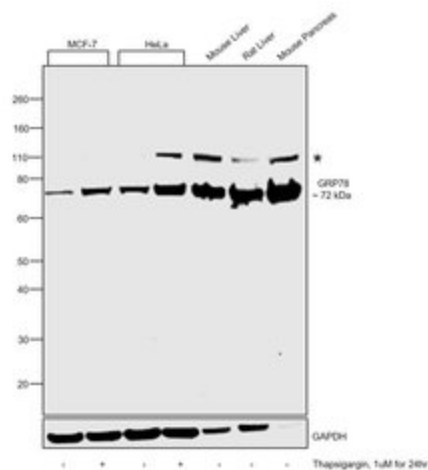
Product Specific Information

PA1-014A detects glucose regulated protein/BiP (GRP78) human, rat, mouse, and canine samples.

PA1-014A has been successfully used in Western blot and immunofluorescence procedures. By Western blot, this antibody detects a 78 kDa protein representing GRP78 from rat liver lysates.

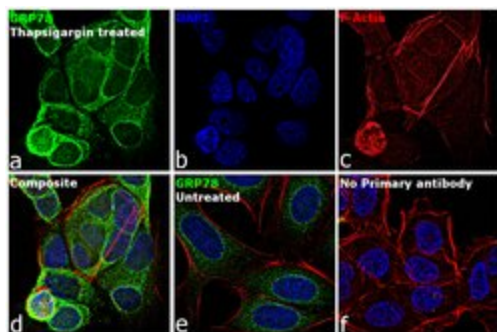
The PA1-014A immunogen is a synthetic peptide corresponding to residues C T(643) G E E D T S E K D E L(654) of rat GRP78.

Reconstitute with PBS.



GRP78 Antibody (PA1-014A)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using GRP78 Polyclonal Antibody (Product # PA1-014A), shows increased expression of proteins in MCF-7 and HeLa upon treatment with Thapsigargin. Cell treatment validation info.



GRP78 Antibody (PA1-014A)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Immunofluorescence analysis of GRP78 using Anti-GRP78 Rabbit Polyclonal Antibody (Product # PA1-014A) shows increased expression of protein in MCF7 cell line upon treatment with Thapsigargin. Cell treatment validation info.

Product Images For GRP78 Polyclonal Antibody

GRP78 Antibody (PA1-014A) in ICC/IF

Immunofluorescence analysis of GRP78 was performed using 70% confluent log phase MCF7 cells and MCF7 cells treated with 1 μM of Thapsigargin for 24 hours. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with GRP78 Rabbit Polyclonal Antibody (Product # PA1-014A) at 5 μg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then with Goat anti-Rabbit IgG (H+L), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1: 300). Panel d represents the merged image showing strong Cytoplasmic localization. Panel e shows untreated cells with weak cytoplasmic signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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Western Blot (18)

Frontiers in physiology

Proteomic Analysis of Placental Mitochondria Following Trophoblast Differentiation.

"PA1-014A was used in Western Blotting to show proteomic shifts in placental mitochondrial metabolism and dynamics post-trophoblast differentiation."

Authors: Fisher JJ,McKeating DR,Cuffe JS,Bianco-Miotto T,Holland OJ,Perkins AV

Species
Human

Dilution
1:1000

Year
2020

FASEB journal : official publication of the Federation of American Societies for Experimental Biology

Novel role of dynamin-related-protein 1 in dynamics of ER-lipid droplets in adipose tissue.

"PA1-014A was used in Western Blotting to report that DRP1 translocates to endoplasmic reticulum (ER) in response to -adrenergic stimulation."

Authors: Li X,Yang L,Mao Z,Pan X,Zhao Y,Gu X,Eckel-Mahan K,Zuo Z,Tong Q,Hartig SM,Cheng X,Du G,Moore DD,Bellen HJ,Sesaki H,Sun K

Species
Mouse

Dilution
Not Cited

Year
2020

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Immunohistochemistry (1)

Integrative medicine research

A mechanical acupuncture instrument mitigates the endoplasmic reticulum stress and oxidative stress of ovariectomized rats.

"PA1-014A was used in Immunohistochemistry-immunofluorescence to investigate whether stimulation of Sanyinjiao using a mechanical acupuncture instrument can alleviate depression-like behaviour caused by estrogen deficiency in OVX rats."

Authors: Seo SY,Kang SY,Kwon OS,Bang SK,Kim SP,Choi KH,Moon JY,Ryu Y

Species
Not Applicable

Dilution
1:1000

Year
2019

Immunocytochemistry (2)

Scientific reports

GRP78 translocation to the cell surface and O-GlcNAcylation of VE-Cadherin contribute to ER stress-mediated endothelial permeability.

"PA1-014A was used in Immunocytochemistry-immunofluorescence to test the hypothesis that increased ER stress via O-GlcNAcylation of VE-Cadherin likely contribute to endothelial permeability."

Authors: Lenin R,Nagy PG,Jha KA,Gangaraju R

Species
Human

Dilution
Not Cited

Year
2019

More applications with references on thermofisher.com

IP (1) Misc (1)

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