

KDEL Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Hamster, Human, Mouse, Rat
Published Species	Rat, Sea urchin, 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 GRP94.
Form	Lyophilized
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20°C, Avoid Freeze/Thaw Cycles
RRID	AB_325593

Applications	Tested Dilution	Publications
Western Blot (WB)	8-16 µg/mL	4 Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:200	-
Immunocytochemistry (ICC/IF)	Assay-dependent	11 Publications
Flow Cytometry (Flow)	1-20 µg/mL	-
Immunoprecipitation (IP)	Assay-dependent	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

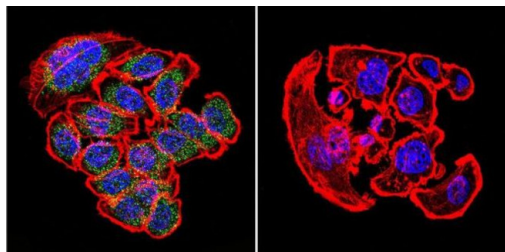
PA1-013 detects KDEL from human, rat, mouse and hamster.

PA1-013 has been successfully used in Western blot, immunofluorescence and immunoprecipitation procedures. By Western blot, this antibody detects a 57 kDa protein representing protein disulfide isomerase (PDI), a 78 kDa protein representing glucose regulated protein 70 kDa (GRP78) and an ~94 kDa protein representing GRP94 in mouse myeloma cells. Immunofluorescence staining of GRP78 in mouse myeloma cells with PA1-013 results in diffuse cytoplasmic staining consistent with specific ER localization. PA1-013 immunoprecipitates PDI, GRP78, an ~72 kDa protein which may be endoplasmic reticulum protein 72 kDa (ERp72), and an ~94 kDa protein representing GRP94 from numerous rodent tissues.

The PA1-013 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 GRP94.

Reconstitute in 100 µL PBS to create a stock of 1 mg/mL.

Product Images For KDEL Polyclonal Antibody

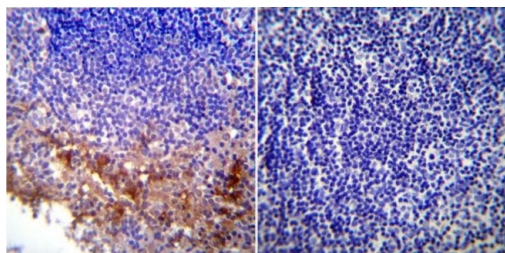


KDEL Antibody (PA1-013) in ICC/IF

Immunofluorescent analysis of KDEL in U251 Cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a KDEL polyclonal antibody (Product # PA1-013) at a dilution of 1:200 overnight at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552). KDEL staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.

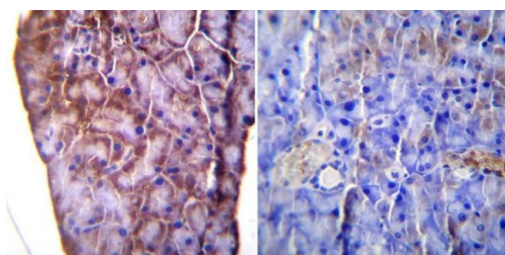
KDEL Antibody (PA1-013) in IHC (P)

Immunohistochemistry was performed on normal biopsies of deparaffinized Mouse lymph node tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:200 with a rabbit polyclonal antibody recognizing KDEL (Product # PA1-013) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



KDEL Antibody (PA1-013) in IHC (P)

Immunohistochemistry was performed on normal biopsies of deparaffinized Mouse pancreas tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:100 with a rabbit polyclonal antibody recognizing KDEL (Product # PA1-013) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



[View more figures on thermofisher.cn](https://www.thermofisher.cn)

23 References

Western Blot (4)

The Journal of biological chemistry

Primary murine airway smooth muscle cells exposed to poly(I,C) or tunicamycin synthesize a leukocyte-adhesive hyaluronan matrix.

"PA1-013 was used in western blot to study the response of primary murine airway smooth muscle cells to poly (I,C) or tunicamycin"

Authors: Lauer ME,Mukhopadhyay D,Fulop C,de la Motte CA,Majors AK,Hascall VC

Year
2009

Species
Mouse

Dilution
1:500

The Journal of biological chemistry

Differentiated murine airway epithelial cells synthesize a leukocyte-adhesive hyaluronan matrix in response to endoplasmic reticulum stress.

"PA1-013 was used in western blot to examine hyaluronan synthesis by the airway epithelial cells in response to endoplasmic reticulum stress."

Authors: Lauer ME,Erzurum SC,Mukhopadhyay D,Vasanji A,Drazba J,Wang A,Fulop C,Hascall VC

Year
2008

Species
Mouse

Dilution
1:500

[View more WB references on thermofisher.cn](#)

Immunohistochemistry (6)

Nature communications

Prohibitin 1 is essential to preserve mitochondria and myelin integrity in Schwann cells.

"PA1-013 was used in Immunohistochemistry to elucidate the functional contribution of prohibitin 1 in schwann cells."

Authors: Della-Flora Nunes G,Wilson ER,Marziali LN,Hurley E,Silvestri N,He B,O'Malley BW,Beirowski B,Poitelon Y,Wrabetz L,Feltri ML

Year
2021

Species
Mouse

Dilution
1:500

The Journal of neuroscience : the official journal of the Society for Neuroscience

Dopamine Transporter Localization in Medial Forebrain Bundle Axons Indicates Its Long-Range Transport Primarily by Membrane Diffusion with a Limited Contribution of Vesicular Traffic on Retromer-Positive Compartments.

"PA1-013 was used in Immunohistochemistry to suggest that DAT traffics between midbrain and striatum mainly by lateral diffusion in the plasma membrane with only a limited contribution of vesicular transport in recycling endosomes."

Authors: Bagalkot TR,Block ER,Bucchin K,Balcita-Pedicino JJ,Calderon M,Sesack SR,Sorkin A

Year
2021

Species
Mouse

Dilution
1:1000

[View more IHC references on thermofisher.cn](#)

More applications with references on thermofisher.cn

ICC/IF (11)

IP (1)

Misc (1)

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