

Anti-Phospho-PERK (Thr980) Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Dog, Pig, Cow, Rabbit)
Molecular Weight:	Theoretical: 119 kDa. Actual: 120 kDa.
Purification:	Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (rat kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Phospho-PERK (Thr980)) Polyclonal Antibody, Unconjugated (TMAB-01477) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.

2. Paraformaldehyde-fixed, paraffin embedded (mouse pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Phospho-PERK (Thr980)) Polyclonal Antibody, Unconjugated (TMAB-01477) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

3. Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Phospho-PERK (Thr980)) Polyclonal Antibody, Unconjugated (TMAB-01477) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

4. Blank control: A431. Primary Antibody (green line): Rabbit Anti-PERK (Thr980) antibody (TMAB-01477)

Dilution: 3 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution: 3 µg/test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

5. Blank control (Black line): A431 (Black).

Primary Antibody (green line): Rabbit Anti-PERK (Thr980) antibody (TMAB-01477)

Dilution: 1 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647

Dilution: 1 µg/test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block

Verified Activity:

non-specific protein-protein interactions for 30 min at -20°C. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

6. Paraformaldehyde-fixed, paraffin embedded (human pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Phospho-PERK (Thr980)) Polyclonal Antibody, Unconjugated (TMAB-01477) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

7. Blank control (black line): HepG2. Primary Antibody (green line): Rabbit Anti-Phospho-PERK (Thr980) antibody (TMAB-01477)

Dilution: 1 µg/Test;

Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF488

Dilution: 0.5 µg/Test.

Isotype control (orange line): Normal Rabbit IgG

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

8. Sample:

Lane 1: Human MCF-7 cell lysates

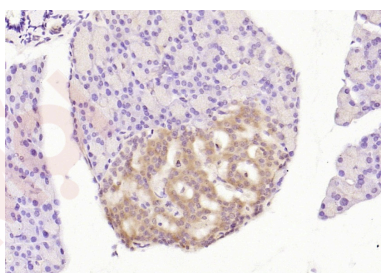
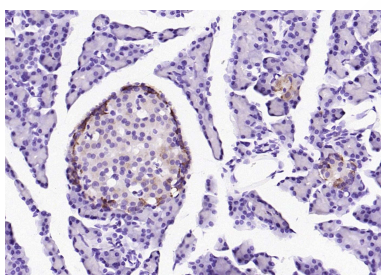
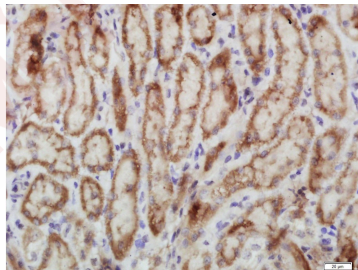
Lane 2: Human MCF-7-Tg (1 µM thapsigargin, 20 min) cell lysates

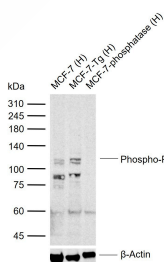
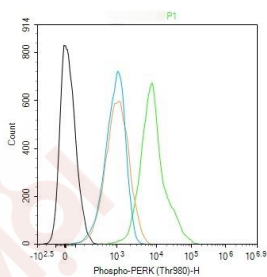
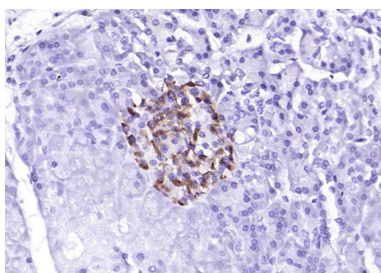
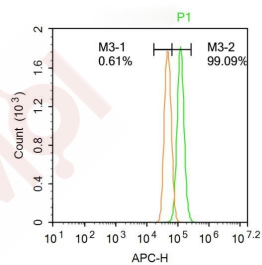
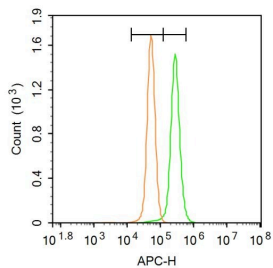
Lane 3: Human MCF-7-phosphatase cell lysates

Primary: Anti-Phospho-PERK (Thr980) (TMAB-01477) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 119 kDa





Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 2ug/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthesised phosphopeptide: mouse PERK around the phosphorylation site of Thr980
Antigen Species:	Mouse
Gene ID:	13666
Uniprot ID:	Q9Z2B5
Synonyms:	WRS;HsPEK;EC 2.7.11.1;HRI;EIF2AK3;PEK;PERK (p-Thr980);PERK (p-T980);Eukaryotic translation initiation factor 2 alpha kinase 3;Pancreatic eIF2-alpha kinase;DKFZp781H1925;Pancreatic eIF2 alpha kinase;p-PERK (T980);E2AK3;p-PERK (Thr980);PRKR-like endoplasmic reticulum kinase; Heme regulated EIF2 alpha kinase
Biology Area:	Regulation,Eukaryotic Initiation factors (eIF's),Diabetes,Metabolic disorders,Obesity

Research Background

The protein encoded by this gene phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2 (EIF2), leading to its inactivation, and thus to a rapid reduction of translational initiation and repression of global protein synthesis. It is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malformed proteins. Mutations in this gene are associated with Wolcott-Rallison syndrome. [provided by RefSeq, Jan 2010].

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