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Anti-PERK Rabbit mAb [13B01]

Catalog No.: A52269

Basic Information

Catalog No. (Cat.No.)	A52269
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Synonyms	PERK,eIF2α kinase 3,ERN2,protein kinase RNA-like ER kinase

Product Information

Target	PERK
Molecular Weight(Calculated)	125 kDa
Molecular Weight(Observed)	140 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	13B01
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Protein kinase RNA-like endoplasmic reticulum kinase
Gene Name	*EIF2AK3*
Domain	NA
Background	EIF2AK3 (PERK, eukaryotic translation initiation factor 2-alpha kinase 3) belongs to endoplasmic-reticulum stress-sensing kinase family and transduces unfolded-protein-response (UPR) signals to govern translation and cell fate. Embedded in ER membrane, PERK senses luminal protein-folding stress via its N-terminal domain and becomes activated through dimerization and autophosphorylation. Active PERK phosphorylates eIF2α to globally attenuate mRNA translation and alleviate ER protein burden. Under sustained ER stress, PERK-dependent CHOP up-regulation triggers apoptotic execution. PERK also modulates lipid metabolism and pancreatic β-cell homeostasis; its dysregulation contributes to diabetes, neurodegeneration and malignancy.