

Datasheet for ABIN878623

anti-PERK antibody (pThr980) (AbBy Fluor® 647)[Go to Product page](#)**1** Publication

Overview

Quantity:	100 µL
Target:	PERK (EIF2AK3)
Binding Specificity:	pThr980
Reactivity:	Human, Mouse, Rat, Dog, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PERK antibody is conjugated to AbBy Fluor® 647
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from mouse PERK around the phosphorylation site of Thr980
Isotype:	IgG
Cross-Reactivity:	Dog, Human, Mouse, Pig, Rat
Predicted Reactivity:	Cow,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	PERK (EIF2AK3)
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Target Details

Alternative Name:	PERK (EIF2AK3 Products)
Background:	<p>Synonyms: Pek, Perk, AI427929, Eukaryotic translation initiation factor 2-alpha kinase 3, PRKR-like endoplasmic reticulum kinase, Pancreatic eIF2-alpha kinase, Eif2ak3</p> <p>Background: 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. Serves as a critical effector of unfolded protein response (UPR)-induced G1 growth arrest due to the loss of cyclin-D1 (CCND1). Involved in control of mitochondrial morphology and function.</p>
Gene ID:	13666
UniProt:	Q9Z2B5
Pathways:	Hormone Transport , ER-Nucleus Signaling , Positive Regulation of Endopeptidase Activity , Hepatitis C , Unfolded Protein Response

Application Details

Application Notes:	FCM 1:20-100 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:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % 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:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Publications

Product cited in: Chen, Holstein, Aime, Bollo, Lechleiter: "Calcineurin β protects brain after injury by activating the unfolded protein response." in: **Neurobiology of disease**, Vol. 94, pp. 139-56, (2016) ([PubMed](#)).