

Datasheet for ABIN7152142

anti-PERK antibody (AA 115-330) (Biotin)[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	PERK (EIF2AK3)
Binding Specificity:	AA 115-330
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PERK antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Eukaryotic translation initiation factor 2-alpha kinase 3 protein (115-330AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	PERK (EIF2AK3)
Alternative Name:	EIF2AK3 (EIF2AK3 Products)
Background:	Background: Metabolic-stress sensing protein kinase that phosphorylates the alpha subunit of

Target Details

eukaryotic translation initiation factor 2 (eIF-2-alpha/EIF2S1) on '\Ser-52\' during the unfolded protein response (UPR) and in response to low amino acid availability. Converts phosphorylated eIF-2-alpha/EIF2S1 either in a global protein synthesis inhibitor, leading to a reduced overall utilization of amino acids, or to a translation initiation activator of specific mRNAs, such as the transcriptional activator ATF4, and hence allowing ATF4-mediated reprogramming of amino acid biosynthetic gene expression to alleviate nutrient depletion. 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.

Aliases: DKFZp781H1925 antibody, E2AK3_HUMAN antibody, EC 2.7.11.1 antibody, Eif2ak3 antibody, Eukaryotic translation initiation factor 2 alpha kinase 3 antibody, Eukaryotic translation initiation factor 2-alpha kinase 3 antibody, Heme regulated EIF2 alpha kinase antibody, HRI antibody, HsPEK antibody, Pancreatic eIF2 alpha kinase antibody, Pancreatic eIF2-alpha kinase antibody, PEK antibody, PRKR like endoplasmic reticulum kinase antibody, PRKR-like endoplasmic reticulum kinase antibody, WRS antibody

UniProt: [Q9NZJ5](#)

Pathways: [Hormone Transport](#), [ER-Nucleus Signaling](#), [Positive Regulation of Endopeptidase Activity](#), [Hepatitis C](#), [Unfolded Protein Response](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

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,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.