

Datasheet for ABIN4909079

anti-PERK antibody





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Quantity:	100 μL	
Target:	PERK (EIF2AK3)	
Reactivity:	Human, Mouse, Rat	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This PERK antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	
Product Details		
Immunogen:	This EIF2AK3 antibody is generated from a mouse immunized with a recombinant protein conjugated synthetic peptide between 530-850 amino acids from human EIF2AK3.	
Clone:	3C3	
Isotype:	lgG1	
Cross-Reactivity:	Human, Mouse, Rat	
Purification:	Purified by Protein G.	
Target Details		
Target:	PERK (EIF2AK3)	
Alternative Name:	EIF2AK3 (EIF2AK3 Products)	
Background:	und: Synonyms: PEK, WRS, PERK, Eukaryotic translation initiation factor 2-alpha kinase 3, PRKR-lik	

endoplasmic reticulum kinase, Pancreatic elF2-alpha kinase, HsPEK, EIF2AK3
Background: Metabolic-stress sensing protein kinase that phosphorylates the alpha subunit of
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
elF-2-alpha/ElF2S1 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.

Gene ID:	9451
UniProt:	Q9NZJ5
Pathways:	Hormone Transport, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Hepatitis C, Unfolded Protein Response

WB 1:300-5000

IHC-P 1:200-400

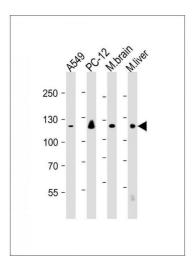
For Research Use only

Application Details

Application Notes:

Restrictions:

Handling		
Format:	Liquid	
Concentration:	0.5 μg/μL	
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % 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:	4 °C,-20 °C	
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.	
Expiry Date:	12 months	



Western Blotting

Image 1. Lane 1: A549, Lane 2: PC-12, Lane 3: mouse brain, Lane 4: mouse liver cell lysate at 20 μg per lane, probed with bsm-51385M EIF2AK3 (1385CT582.4.39) Monoclonal Antibody at 1:1000 dilution and 4°C overnight incubation, followed by secondary antibody incubation for 60min at room temperature.