

Chicken PERK Polyclonal Antibody | anti-PERK antibody

PERK Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA226383	Chicken	Human, Mouse, Rat	Western Blot, Immunoprecipitation, Immunohistochemistry, ELISA, Dot Blot

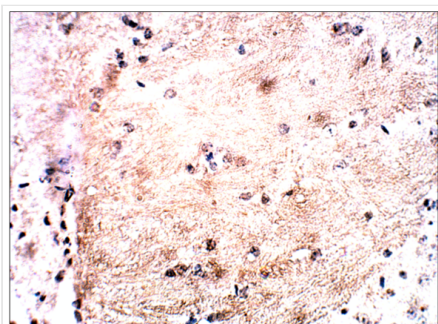
PRODUCT SYNONYMS

PERK; Polyclonal Antibody; PERK Antibody; Affinity Purified Eukaryotic translation initiation factor 2-alpha kinase 3 Antibody; DKFZp781H1925 antibody; E2AK3_HUMAN antibody; EC 2.7.11.1 antibody; Eif2ak3 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; PEK antibody; PRKR like endoplasmic reticulum kinase antibody; WRS antibody; anti-PERK antibody

PRODUCT SPECIFICATIONS

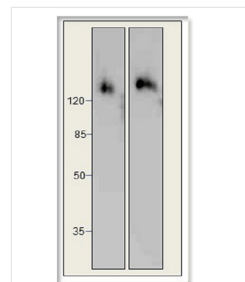
Host	Chicken
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgY
Purity/Purification	Affinity Purified
Concentration	0.68-0.70 ug/ul in antibody stabilization buffer (varies by lot)
Sequence Length	1116
Applicable Applications for anti-PERK antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, DB (Dot Blot)
Immunogen	Synthetic peptide taken within amino acid region 1000-1050 on human Eukaryotic translation initiation factor 2-alpha kinase 3 protein.
Conjugation	Unconjugated
Molecular Function	Kinase; Serine/threonine-protein kinase; Transferase
Subcellular Location	Endoplasmic reticulum membrane; Single-pass type I membrane protein
Preparation and Storage	Store at -20 degree C for long term storage.

IMAGES



Mouse Cerebellum- PERK
Primary Antibody: 1:100 dilution in IHC Blocking Buffer.
DAB (brown) staining and Hematoxylin QS (blue) counterstain.
40X magnification on Leica DM4000B. FFPE section.

IHC (Immunohistochemistry)



WB with rat adrenal cells.

Left- Chicken Serum antibodies
Right- Total PERK IgY

Apparent MW is 135 kDa.

WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-PERK antibody	Overview: 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. Structure: Forms dimers with HSPA5/BIP in resting cells. Oligomerizes in ER-stressed cells. Interacts with DNAJC3 and MFN2. Expression: Ubiquitous. A high level expression is seen in secretory tissues.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	134304838
NCBI GeneID	9451
NCBI Accession #	NP_004827
NCBI GenBank Nucleotide #	NM_004836.6
UniProt Accession #	Q9NZJ5; O95846; Q53QY0; Q53SB1; A0AVH1; A0AVH2; B2RCU9
Molecular Weight	125,216 Da
NCBI Official Full Name	eukaryotic translation initiation factor 2-alpha kinase 3 isoform 1
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2 alpha kinase 3
NCBI Official Symbol	EIF2AK3
NCBI Official Synonym Symbols	PEK; WRS; PERK
NCBI Protein Information	eukaryotic translation initiation factor 2-alpha kinase 3
UniProt Protein Name	Eukaryotic translation initiation factor 2-alpha kinase 3
UniProt Gene Name	EIF2AK3
UniProt Synonym Gene Names	PEK; PERK; HsPEK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/perk-antibody-western-blot-immunoprecipitation-immunohistochemistry-dot-blot-elisa/226383>