

PEK/PERK Antibody | anti-PEK/PERK antibody

PEK/PERK (Phospho-Thr981) Antibody

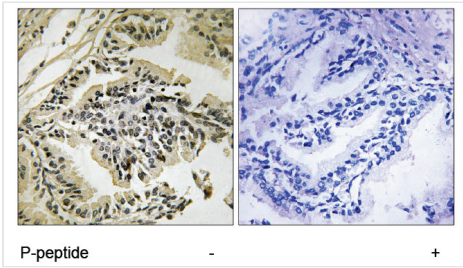
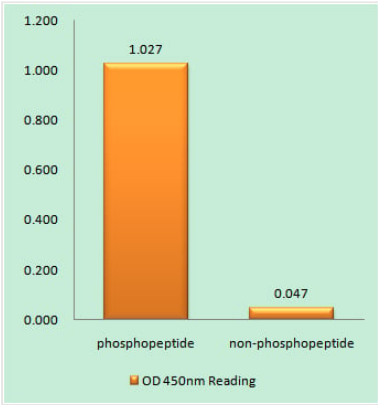
CATALOG #	REACTIVITY	APPLICATIONS
AAA109843	Human (Identities = 100%, Positives = 100%); Mouse (Identities = 92%, Positives = 92%); Rat (Identities = 92%, Positives = 92%)	ELISA, Immunohistochemistry

PRODUCT SYNONYMS

PEK/PERK; PEK/PERK (Phospho-Thr981) Antibody; E2AK3; EC 2.7.11.1; EIF2AK3; Eukaryotic translation initiation factor 2-alpha kinase 3 precursor; HsPEK; kinase PERK; Pancreatic eIF2-alpha kinase; PEK; PERK; PRKR-like endoplasmic reticulum kinase; anti-PEK/PERK antibody

PRODUCT SPECIFICATIONS

Reactivity	Human (Identities = 100%, Positives = 100%); Mouse (Identities = 92%, Positives = 92%); Rat (Identities = 92%, Positives = 92%)
Specificity	PEK/PERK (Phospho-Thr981) antibody detects endogenous levels of PEK/PERK only when phosphorylated at threonine 981.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Form/Format	In phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Sequence Length	1116
Applicable Applications for anti-PEK/PERK antibody	ELISA, IHC (Immunohistochemistry)
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human PEK/PERK around the phosphorylation site of threonine 981 (R-H-TP-G-Q).
All Sites	Human: Thr981 Mouse: Thr980 Rat: Thr974
Preparation and Storage	Store at -20°C for 1 year.



Application Data
Immunohistochemistry analysis of paraffin-embedded human prostate carcinoma tissue using PEK/PERK (Phospho-Thr981) antibody.

IHC (Immunohiostchemistry)
PEK/PERK (Phospho-Thr981) antibody reacts with epitope-specific phosphopeptide and corresponding non-phosphopeptide. The absorbance readings at 450 nM are shown in the ELISA figure.

ADDITIONAL INFORMATION

Product Categories/Family for anti-PEK/PERK antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
References	Shi Y., An J., J. Biol. Chem. 274:5723-5730(1999). Sood R., Biochem. J. 346:281-293(2000). The MGC Project Team; Genome Res. 14:2121-2127(2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	134304838
NCBI GeneID	9451
NCBI Accession #	NP_004827.4
NCBI GenBank Nucleotide #	NM_004836.6
UniProt Accession #	Q9NZJ5; O95846; Q53QY0; Q53SB1; A0AVH1; A0AVH2; B2RCU9
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.