

PEK/PERK (Phospho-Thr982) Antibody

Catalog No: #11751

Package Size: #11751-1 50ul #11751-2 100ul

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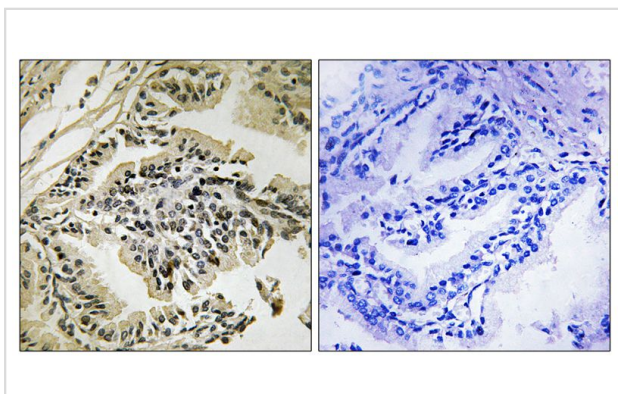
Description

Product Name	PEK/PERK (Phospho-Thr982) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of PEK/PERK only when phosphorylated at threonine 982.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 982(R-H-T(p)-G-Q) derived from Human PEK/PERK.
Target Name	PEK/PERK
Modification	Phospho
Other Names	E2AK3; PERK; PEK; EIF2AK3;
Accession No.	Swiss-Prot#: Q9NZJ5; NCBI Gene#: 9451; NCBI Protein#: NP_004827.4.
SDS-PAGE MW	125kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Immunohistochemistry: 1:50~1:100

Images



Immunohistochemical analysis of paraffin-embedded human prostate carcinoma tissue using PEK/PERK (Phospho-Thr982) antibody #11751 (left) or the same antibody preincubated with blocking peptide (right).

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)

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).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.