Product Datasheet

PKR(Phospho-Thr451) Antibody

Catalog No: #11290

Package Size: #11290-1 50ul #11290-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

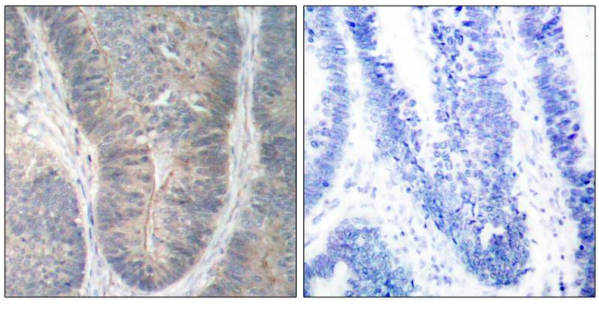
Product Name	PKR(Phospho-Thr451) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of PKR only when phosphorylated at threonine 451.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 451 (K-G-T(p)-L-R) derived from Human PKR.
Target Name	PKR
Modification	Phospho
Other Names	ADRB2; E2AK2; EIF2AK2; EIF2aK; PRKR
Accession No.	Swiss-Prot: P19525 NCBI Protein: NP_001129123.1
Uniprot	P19525
GeneID	5610;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 68kd

Immunohistochemistry: 1:50~1:100

Images



Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using PKR(Phospho-Thr451) Antibody #11290(left) or the same antibody preincubated with blocking peptide(right).

Background

Following activation by double-stranded RNA in the presence of ATP, the kinase becomes autophosphorylated and can catalyze the phosphorylation of the translation initiation factor EIF2S1, which leads to an inhibition of the initiation of protein synthesis. Double-stranded RNA is generated during the course of a viral infection.

Ingrid K. Ruf, et,al. (2005) J. Virol ; 79: 14562 - 14569.

Christy M. Hebner,et,al. (2006) J. Gen. Virol ; 87: 3183 - 3193.

Rika van Huizen, et,al. (2003) J. Biol. Chem ; 278: 15558 - 15564.

Note: This product is for in vitro research use only