

35-1256: Polyclonal Antibody to PKR (Phospho-Thr446)

Clonality :	Polyclonal
Application :	WB,IHC,IF
Reactivity :	Human
Gene :	EIF2AK2
Gene ID :	5610
Uniprot ID :	P19525
Format :	Purified
Alternative Name :	ADRB2, E2AK2, EIF2AK2, EIF2aK, PRKR
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around phosphorylation site of threonine 446 (K-R-T(p)-R-S) derived from Human PKR.

Description

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. Abujiang Pataer, et.al. (2002) Cancer Res; 62: 2239. K. D. Ryman, et.al. (2005) J. Virol; 79: 1487 - 1499. Susana Guerra, et.al. (2006) J. Biol. Chem; 281: 18734 - 18745.

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 68kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100, Immunofluorescence: 1:100~1:200

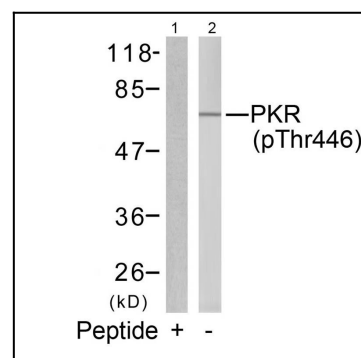


Figure 1: Western blot analysis of extracts from K562 cells using PKR(Phospho-Thr446) Antibody 35-1256 (Lane 2) and the same antibody preincubated with blocking peptide(Lane1).

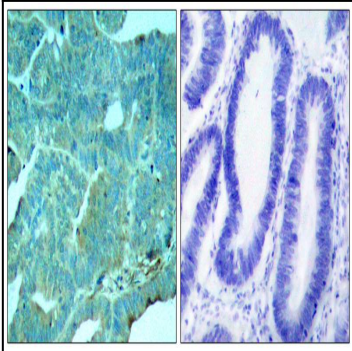


Figure 2: Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using PKR(Phospho-Thr446) Antibody 35-1256 (left) or the same antibody preincubated with blocking peptide(right).

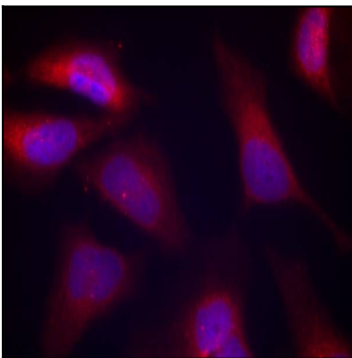


Figure 3: Immunofluorescence staining of methanol-fixed HeLa cells using PKR(Phospho-Thr446) Antibody 35-1256 .