Rabbit anti-Human TK Polyclonal Antibody | anti-TK antibody

TK (Ab-13) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA301647	**Rabbit**	**Human**	**Immunofluorescence, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

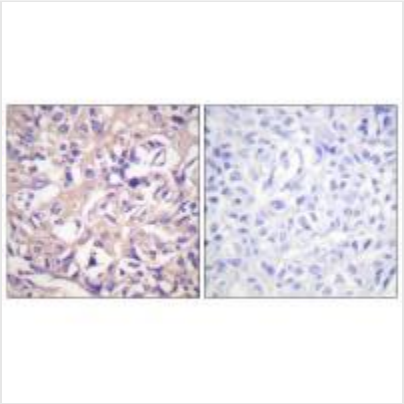
TK; Polyclonal Antibody; TK (Ab-13) Antibody; EC 2.7.1.21; KITH; TK-1; TK1; Thymidine kinase; anti-TK antibody

PRODUCT SPECIFICATIONS

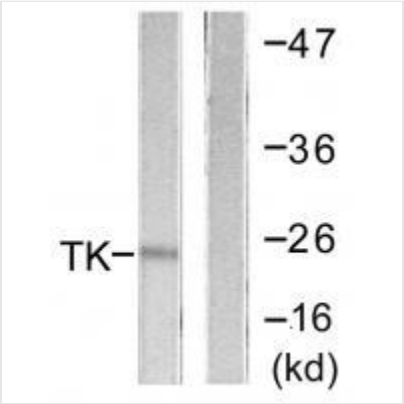
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	The antibody detects endogenous levels of total TK protein
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	234
Applicable Applications for anti-TK antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Peptide
Immunogen Description	Synthesized non-phosphopeptide derived from human TK around the phosphorylation site of serine 13 (P-G-S(p)-P-S).
Target Name	TK
Preparation and Storage	Store at -20 degree C

IMAGES

IF (Immunofluorescence)
Immunofluorescence analysis of HepG2 cells, using TK (Ab-13) antibody.



IHC (Immunohiostchemistry)
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue using TK (Ab-13) antibody.



WB (Western Blot)
Western blot analysis of extracts from COLO205 cells, using TK (Ab-13) antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-TK antibody	Thymidine kinases play a critical role in generating the DNA synthetic precursor deoxythymidine triphosphate (dTTP) by catalyzing the phosphotransfer of phosphate from ATP to deoxythymidine (dT) and thymidine (T) in the cell.TK1 expression and activity is regulated in a cell cycle-dependent manner, accumulating during G1-phase to peak levels in S-phase before being degraded prior to cell division. Stability, but not activity, may be regulated via phosphorylation of TK1 at Ser13 by Cdc2 and/or Cdk2, but the precise mode of regulation remains elusive. These observations indicate that TK1 might be a useful marker of cell proliferation; however, recent studies have shown that TK1 plays a more significant role in the DNA damage response.N Singh, Mol. Cell. Biol., May 1991; 11: 2362 - 2374. Bin Tian, Am. J. Pathol., Aug 2003; 163: 789. Ren¨¦ Gerolami, Cancer Res., Feb 2000; 60: 993 - 1001. Catia Traversari, Blood, Jun 2007; 109: 4708 - 4715
Product Categories/Family for anti-TK antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	164698438
NCBI GeneID	7083
NCBI Accession #	NP_003249.3
NCBI GenBank Nucleotide #	NM_003258.4
UniProt Accession #	P04183; Q969V0; Q9UMG9; B2RC58

Molecular Weight	25,469 Da
NCBI Official Full Name	thymidine kinase, cytosolic
NCBI Official Synonym Full Names	thymidine kinase 1, soluble
NCBI Official Symbol	TK1
NCBI Official Synonym Symbols	TK2
NCBI Protein Information	thymidine kinase, cytosolic
UniProt Protein Name	Thymidine kinase, cytosolic
UniProt Gene Name	**TK1**
UniProt Entry Name	KITH_HUMAN

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.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/tk-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/301647