

## Product datasheet for **AP14913PU-N**

### MLK4 (MAP3K21) (N-term) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1,000 . <b>Western blotting:</b> 1/1000. <b>Immunohistochemistry on Paraffin Sections:</b> 1/10-1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 33-62 amino acids from the N-terminal region of Human MLK4.
Specificity:	This antibody recognizes MLK4 (N-term). Other species not tested.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) Sodium Azide
Concentration:	lot specific
Purification:	Saturated Ammonium Sulfate (SAS) Precipitation, followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	113957 Da
Gene Name:	mitogen-activated protein kinase kinase kinase 21
Database Link:	<a href="#">Entrez Gene 84451 Human</a> <a href="#">Q5TCX8</a>



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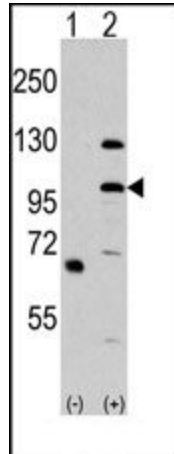
**Background:**

Mixed-lineage kinases (MLKs) function as mitogen-activated protein kinase kinase kinases (MAP3Ks), activating the p38 and JNK signaling cascades. Systematic mutational analyses of tyrosine kinases reveal that a minimum of 30% of colorectal cancer contain at least one mutation in the tyrosine kinases; sampling of colorectal cancer cells suggest an important role of MLK4 in this process.

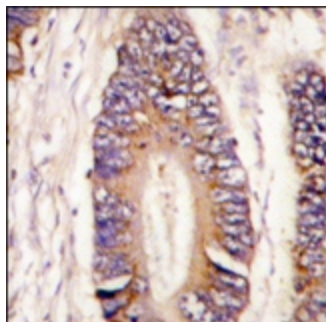
**Function:** Negative regulator of TLR4 signaling. Does not activate JNK1/MAPK8 pathway, p38/MAPK14, nor ERK2/MAPK1 pathways.

**Synonyms:**

Mitogen-activated protein kinase kinase kinase, MLK4, KIAA1804

**Product images:**


Western blot analysis of MLK4 (arrow) using rabbit polyclonal MLK4 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the KIAA1804 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with MLK4 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.