

## Rabbit Polyclonal Anti-MERTK antibody

Catalog Number: MKT-101AP

Lot Number:

### General Information

<b>Product</b>	MERTK Antibody
<b>Description</b>	Affinity Purified Human cellular proto-oncogene (c-mer) mRNA Antibody C-epitope
<b>Accession #</b>	Uniprot: Q12866 GenBank: U08023.1
<b>Verified Applications</b>	CM, ELISA, ICC, IF, IHC, IP, WB
<b>Species Cross Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Immunogen</b>	Synthetic peptide taken within amino acid region 900-994 on MerTK protein.
<b>Alternative Nomenclature</b>	c mer proto oncogene tyrosine kinase antibody, cMER antibody, Eyk antibody, MER antibody, MER receptor tyrosine kinase antibody, MERK antibody, MERPEN antibody, Mertk antibody, MERTK c-mer proto-oncogene tyrosine kinase antibody, MGC133349 antibody, nmf12 antibody, Nyk antibody, Proto oncogene tyrosine protein kinase MER antibody, Receptor tyrosine kinase MerTK antibody, RP38 antibody, STK kinase antibody, Tyrosine-protein kinase Mer antibody

### Physical Properties

<b>Quantity</b>	100 µg
<b>Volume</b>	200 µl
<b>Form</b>	Affinity Purified Immunoglobulins
<b>Determinant</b>	C-epitope
<b>Immunoglobulin &amp; Concentration</b>	0.75 mg/ml IgG in antibody stabilization buffer
<b>Storage</b>	Store at -20°C for long term storage.

### Related Products

### Catalog #

<b>BIOTIN-Conjugated</b>	MKT100-BIOTIN
<b>FITC-Conjugated</b>	MKT100-FITC
<b>Antigenic Blocking Peptide</b>	P-MKT100
<b>Western Blot Positive Control</b>	PC-MKT

## Recommended Dilutions

<b>DOT Blot</b>	1:10,000
<b>ELISA</b>	1:10,000
<b>Immunocytochemistry</b>	1:200
<b>Immunofluorescence</b>	1:200
<b>Immunohistochemistry</b>	1:200
<b>Immunoprecipitation</b>	1:200
<b>Western Blot</b>	1:750

## Application Verification:



WB using MKT-101AP and human RPE cells. 1:500 antibody dilution in DiluOBuffer. Apparent MW is 109 kDa.

Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigators intending to use an application that has not been verified can request a complimentary sample.

## Overview:

Tyrosine kinase activity is critical for transducing mitogenic signals inside the cells. Many of these tyrosine kinase proteins and receptors undergo auto-phosphorylation for the regulation of their activity (1, 2). Such auto phosphorylation takes place at multiple sites and results in to phosphorylation of cellular substrates. The Nyk receptor tyrosine kinase was identified by screening human glioma expression library with an anti-Phospho tyrosine antibody. The same kinase was also independently identified and cloned by Graham and coworkers and they referred it as Mer (3). Chicken homologues for this gene are also identified as c-eyk (4). The Nyk/Mertk/c-eyk are the newest members of the Ufo/Axl family of receptor tyrosine kinases which are characterized by the presence of NCAM-like extra-cellular regions with 2 IgG-like domains juxtaposed with 2 fibronectin III-like regions. It is been shown that MERTK/Nyk has a strong mitogenic and transforming potential by activating PI 3 kinase, PLCgamma, MAP-kinase pathways (5).

The receptor tyrosine kinase MERTK protein is approximately a 175-210 kDa protein. The MERTK protein has a tyrosine kinase domain closer to the C-terminal region and putative phosphorylation sites. The Anti-MERTK-selective antibody was generated against a conserved sequence near the C-terminal end that is unique to MERTK protein only. Western blot positive controls for (PC-MKT) are available in ready-to-use SDS sample buffer. Synthetic peptide (P-MKT) is also available for immunodepletion/immunocompetition studies. For a complete listing of FabGennix products and lab services, please visit <http://fabgennix.com>.

### References:

1. Kazlauskas A. *Current Opin. Genet. Dev.* 1994; 4; 5-14.
2. Heldin C. H. *Cell* 1995; 80; 213-223.
3. Graham D. K., Dawson T. L., Mullaney D. L., et. al., *Cell Growth Diff.* 1994; 5; 647-657.
4. Jia R. and Manafusa H. *J. Biol. Chem.* 1994; 269; 1839-1844.
5. Ling L. and Kung H. J. *Mol. Cell Biol.* 1995; 15; 6582-6592.

\* For users who may require large amounts of the products listed above, please inquire about bulk material discounts.  
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.