

# ABfinity™ COT/TPL2/MAP3K8 Recombinant Rabbit Monoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number 701352

Pub. No. MAN0007786 Rev. 1.00

<b>Clonality:</b> Monoclonal	<b>Quantity:</b> 100 µg	<b>Volume:</b> 200 µL	<b>Concentration:</b> 0.5 mg/mL
<b>Host/Class:</b> Rabbit IgG	<b>Reactivity:</b> Human	<b>Predicted Reactivity:</b> Human COT/TPL2/MAP3K8	

## Product description

COT (Cancer Osaka thyroid oncogene) also known as MAP3K8/TPL2 (Mitogen Activated Protein kinase 8/Tumor Progression Locus 2). This oncogene is a member of the serine threonine protein kinase family and is localized in the cytoplasm. It is known to activate JNK kinase and MAP kinase pathways along with activating IK-B kinases aiding in nuclear production of NF-KappaB. The production of IL-2 and TNF-alpha during T cell activation is also mediated by COT/MAP3K8/TPL2. In addition to this, COT/MAP3K8/TPL2 also aids in T-cell co-stimulation, signal transduction, and amino acid phosphorylation. In humans, the MAP3K8 gene encoding COT/MAP3K8/TPL2 is present on chromosome 10.

## Product specifications

<b>Immunogen:</b>	Peptide corresponding to amino acids 282-293 of human COT/TPL2/MAP3K8
<b>Alternate Names:</b>	ESTF
<b>Apparent MW:</b>	~53 kDa
<b>Gene ID:</b>	1326
<b>Protein Accession No.:</b>	P41279
<b>Sequence Identity:</b>	Human
<b>Isotype:</b>	IgG
<b>Lot:</b>	See product label

## Product applications

Application	Species	Test Material	Concentration
Western blotting	Human	HepG2 cells	1-2 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 <sup>-4</sup> to 3 µg/mL

## Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or -20°C for long storage. Avoid repeated freezing and thawing.

## Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

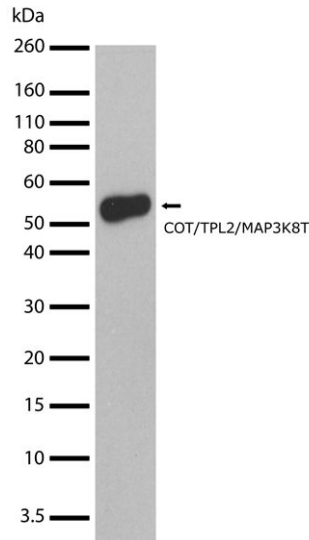


Figure 1 Western blot analysis of ABfinity™ COT/TPL2/MAP3K8 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701352).

Western blot analysis was performed on whole cell extracts from HepG2. Endogenous level of COT/TPL2/MAP3K8 was detected at ~53 kDa using ABfinity™ COT/TPL2/MAP3K8 Recombinant Rabbit Monoclonal Antibody at a concentration of 1 µg/mL, followed by Goat Anti-Rabbit HRP (Cat. no. G21234) as a secondary antibody. The blot was developed using enhanced chemiluminescence (ECL) method.

## Storage buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



**CAUTION!** Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Product documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit <http://www.lifetechnologies.com/support>.

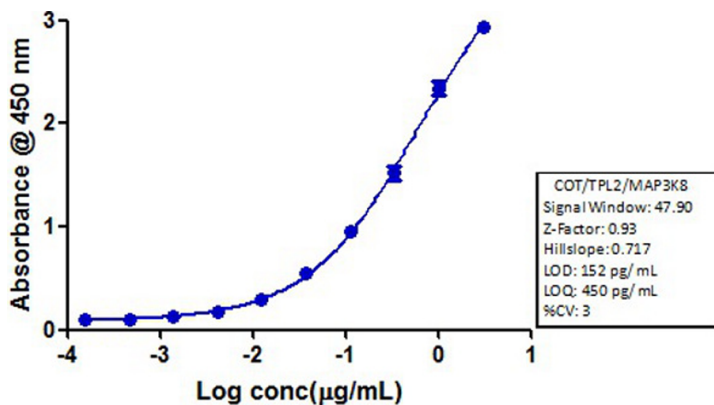


Figure 2 Indirect ELISA of ABfinity™ COT/TPL2/MAP3K8 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701352).

Indirect ELISA was performed to detect various dilutions of ABfinity™ COT/TPL2/MAP3K8 Recombinant Rabbit Monoclonal Antibody, followed by Goat Anti-Rabbit HRP (Cat. no. G21234) to detect COT/TPL2/MAP3K8 peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), LOD, and LOQ for the antibody was determined.

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### Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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