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Product datasheet for AP06071PU-N

MAP3K8 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	**Western blot**: 1/500-1/1000. **Immunofluorescence**: 1/50-1/200. I**mmunohistochemistry on Paraffin sections**: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 250-300 of Human Cot.
Specificity:	This antibody detects endogenous levels of MAP3K8 / TPL-2 protein (region surrounding Pro284).
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (>95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
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:	~53 kDa
Gene Name:	mitogen-activated protein kinase kinase kinase 8
Database Link:	Entrez Gene 26410 MouseEntrez Gene 116596 RatEntrez Gene 1326 Human P41279

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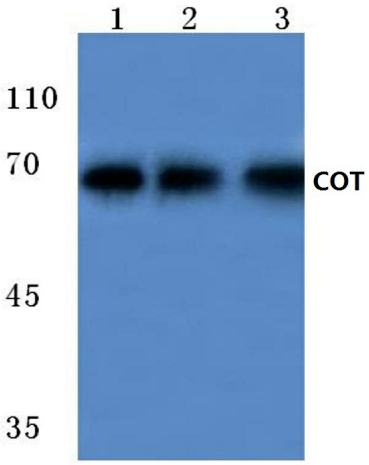
Background: The role of mitogen-activated protein kinases (MAPKs) in cell signaling pathways is well established. The rat gene Tpl-2, for tumor progression locus 2, and the human and mouse homologues c-Cot, for cancer osaka thyroid oncogene, encode a proto-oncogene serine/threonine protein kinase that was shown to play a role in the functional activation of the MAP kinase pathway. Overexpression of Cot induces MAP kinase activation in COS-1 and NIH/3T3 cells. Cot-mediated activation of MAP kinase is inhibited by both Ras N17, a dominant negative mutant of c-H-Ras, and Raf-1s621A, a dominant negative mutant of Raf-1, suggesting that Cot functions upstream of Ras and Raf-1.Other studies have shown that a kinase-negative, dominant negative mutant of Cot partially blocks Ras or Raf-1-induced MAP kinase activation, arguing that Cot functions downstream of Ras and Raf-1. To explain these contrasting findings, it has been suggested that Cot, Ras and Raf-1 may form a multimeric complex that phosphorylates MEK-1. Cot has also been shown to be implicated in T lymphocyte activation.

Synonyms: MAPK, Tumor progression locus 2, COT, ESTF

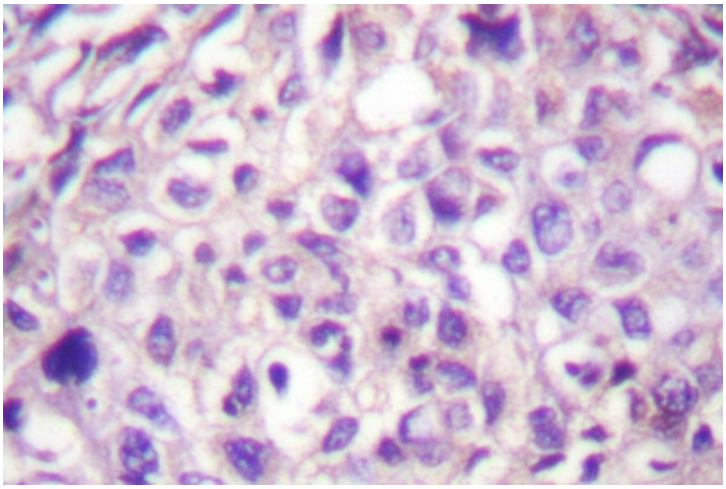
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: MAPK signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway

Product images:



Western blot (WB) analysis of COT antibody at 1/500 dilution Lane 1:HEK293T cell lysate Lane 2:Mouse brain tissue lysate Lane 3:Rat liver tissue lysate



Immunohistochemical (IHC) analysis in paraffin-embedded human brain tissue using MAP3K8 / TPL-2 antibody.