MAPK14 Antibody

Mouse Monoclonal Antibody [Clone CPTC-MAPK14-1]

Catalog No	Format	Size
1432-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1432-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1432-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

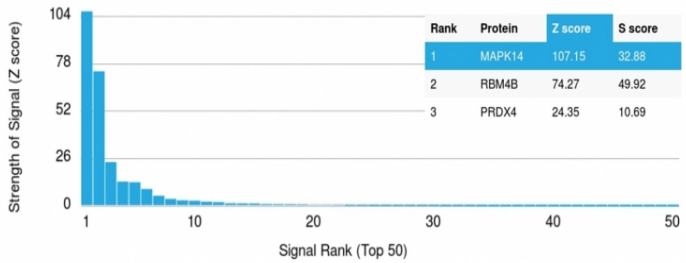
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

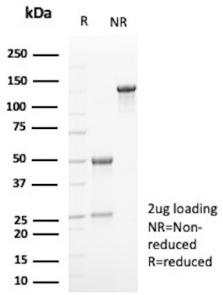
Clone	CPTC-MAPK14-1
Gene Name	MAPK14
Immunogen	Recombinant human full length protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	41.6kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	C6, Jurkat, NIH/3T3 or HeLa cell lysate.

**Optimal dilution for a specific application should be determined.*

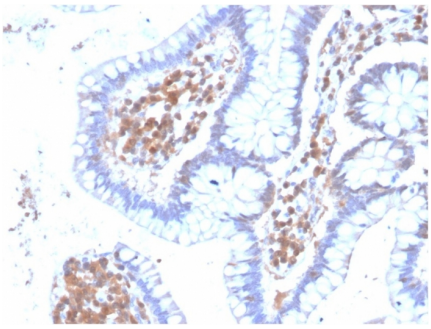
Product Images for MAPK14 Antibody



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing MAPK14 Mouse Monoclonal Antibody (CPTC-MAPK14-1). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



SDS-PAGE Analysis of Purified MAPK14 Mouse Monoclonal Antibody (CPTC-MAPK14-1). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Colon stained with MAPK14 Mouse Monoclonal Antibody (CPTC-MAPK14-1).

Specificity & Comments

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. It has been implicated in various cancer pathologies and depending on the context, can facilitate or interfere with tumor development, and therefore has immense potential therapeutic interest.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Autophagy, Cardiovascular, Cytokine Signaling, Developmental Biology, Immunology, Infectious Disease, MAPK Signaling, Nuclear Marker, Signal Transduction, Transcription Factors

Limitations and Warranty