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CHUK Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant CHUK.
Catalog # AT1534a

Product Information

Application	WB, IHC, IF
Primary Accession	O15111
Other Accession	NM_001278
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2G4
Calculated MW	84640

Additional Information

Gene ID	1147
Other Names	Inhibitor of nuclear factor kappa-B kinase subunit alpha, I-kappa-B kinase alpha, IKK-A, IKK-alpha, IkBKA, IkappaB kinase, Conserved helix-loop-helix ubiquitous kinase, I-kappa-B kinase 1, IKK1, Nuclear factor NF-kappa-B inhibitor kinase alpha, NFKBIKA, Transcription factor 16, TCF-16, CHUK, IKKA, TCF16
Target/Specificity	CHUK (NP_001269, 646 a.a. ~ 745 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CHUK Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

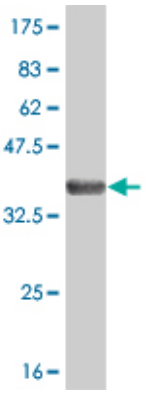
Background

This gene encodes a member of the serine/threonine protein kinase family. The encoded protein, a component of a cytokine-activated protein complex that is an inhibitor of the essential transcription factor NF-kappa-B complex, phosphorylates sites that trigger the degradation of the inhibitor via the ubiquination pathway, thereby activating the transcription factor.

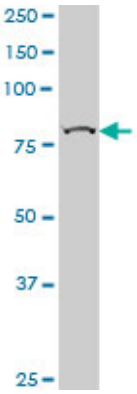
References

MicroRNAs modulate the noncanonical transcription factor NF-kappaB pathway by regulating expression of the kinase IKKalpha during macrophage differentiation. Li T, et al. Nat Immunol, 2010 Sep. PMID 20711193.The association of genetic variability in patatin-like phospholipase domain-containing protein 3 (PNPLA3) with histological severity of nonalcoholic fatty liver disease. Rotman Y, et al. Hepatology, 2010 Sep. PMID 20684021.Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Centrosome-related genes, genetic variation, and risk of breast cancer. Olson JE, et al. Breast Cancer Res Treat, 2010 May 28. PMID 20508983.

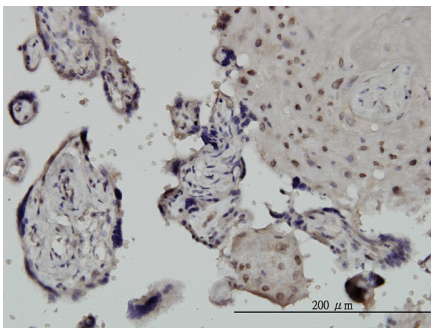
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .

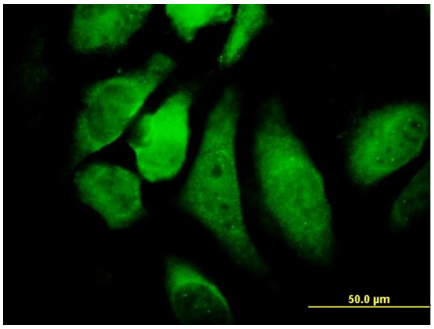


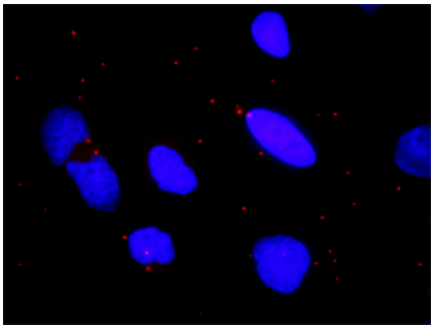
CHUK monoclonal antibody (M04), clone 2G4 Western Blot analysis of CHUK expression in Jurkat ((Cat # AT1534a)



Immunoperoxidase of monoclonal antibody to CHUK on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]

Immunofluorescence of monoclonal antibody to CHUK on HeLa cell. [antibody concentration 10 ug/ml]





Proximity Ligation Analysis of protein-protein interactions between IKBKB and CHUK. HeLa cells were stained with anti-IKBKB rabbit purified polyclonal 1:1200 and anti-CHUK mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).