

CHUK Antibody (monoclonal) (M04)

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

Product Information

Application WB, IHC, IF **Primary Accession** 015111 **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.

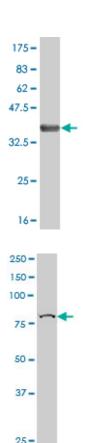
Background

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.

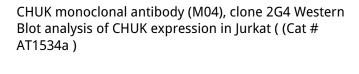
References

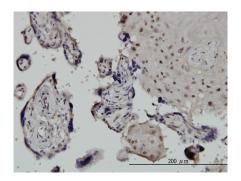
MicroRNAs modulate the noncanonical transcription factor NF-kappaB pathway by regulating expression of the kinase IKKalpha during macrophage differentiation. Li T, et al. Nat Immunol, 2010 Sep. PMID 20711193. The association of genetic variability in patatin-like phospholipase domain-containing protein 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



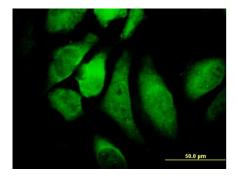
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa).

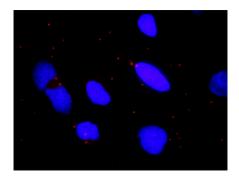




Immunoperoxidase of monoclonal antibody to CHUK on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.