

Rabbit CHUK Polyclonal Antibody | anti-CHUK antibody

Anti-CHUK Antibody, Rabbit Polyclonal

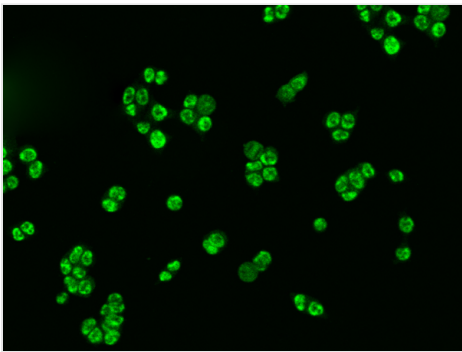
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254648	Rabbit	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)	Immunofluorescence, Immunocytochemistry, Immunohistochemistry

PRODUCT SYNONYMS

CHUK; Polyclonal Antibody; Anti-CHUK Antibody; Rabbit Polyclonal; CHUK Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-IKBKA Antibody; Anti-IKK-alpha Antibody; Anti-IKK1 Antibody; Anti-IKKA Antibody; Anti-NFKBIKA Antibody; Anti-TCF16 Antibody; anti-CHUK antibody

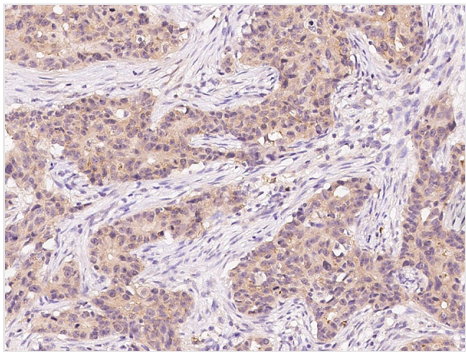
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human CHUK
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CHUK antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Human CHUK
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human CHUK, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



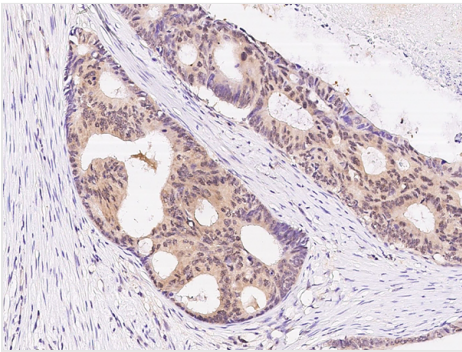
IF (Immunofluorescence)

Immunofluorescence staining of CHUK in HCT116 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human CHUK polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Nucleus.



IHC (Immunohistochemistry)

Immunochemical staining of human CHUK in human breast carcinoma with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human CHUK in human colon carcinoma with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-CHUK antibody	CHUK (conserved helix-loop-helix ubiquitous kinase) is ubiquitously expressed in diverse types of established cell lines, whereas it is differentially expressed in normal murine tissues. The structural features of the CHUK polypeptide suggest that its putative kinase activity may be targetted to H-L-H and/or leucine zipper transcription factors. Alternatively, the dual amphipathic a-helices may serve to control its intrinsic kinase activity by interactions with other cellular factors. CHUK may provide new insights into the regulated transmission of cytoplasmic signals to specific nuclear factors manifesting rapid alterations in patterns of cellular gene expression. The non-canonical NF-kappaB activating kinase IKKalpha, encoded by CHUK, modulates pro-or anti-inflammatory responses, cellular survival, and cellular differentiation. CHUK has an essential role in the development of the skin epidermis and its derivatives, along with various other morphogenetic events.
References	Olivotto E, et al. (2013) Ikkalpha/chuk regulates extracellular matrix remodeling independent of its kinase activity to facilitate articular chondrocyte differentiation. PLoS One 8 (9): e73024.Lahtela J, et al. (2010) Mutant chuk and severe fetal encasement malformation. N Engl J Med 363 (17): 1631-1637.Culley KL, et al. (2019) Inducible knockout of chuk/ikkalpha in adult chondrocytes reduces progression of cartilage degradation in a surgical model of osteoarthritis. Sci Rep 9 (1): 8905.Connelly MA, et al. (1995) Chuk, a new member of the helix-loop-helix and leucine zipper families of interacting proteins, contains a serine-threonine kinase catalytic domain. Cell Mol Biol Res 41 (6): 537-549.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62241001
NCBI GeneID	1147
NCBI Accession #	NP_001269.3

NCBI GenBank Nucleotide #	NM_001278.3
UniProt Accession #	O15111 ; O14666 ; Q13132 ; Q5W0I4 ; Q92467
Molecular Weight	84,640 Da
NCBI Official Full Name	inhibitor of nuclear factor kappa-B kinase subunit alpha
NCBI Official Synonym Full Names	conserved helix-loop-helix ubiquitous kinase
NCBI Official Symbol	CHUK
NCBI Official Synonym Symbols	IKK1; IKKA; IKBKA; TCF16; NFKBKA; IKK-alpha
NCBI Protein Information	inhibitor of nuclear factor kappa-B kinase subunit alpha; TCF-16; IKK-a kinase; I-kappa-B kinase 1; I-kappa-B kinase-alpha; transcription factor 16; Ikb kinase alpha subunit; Nuclear factor NFkappaB inhibitor kinase alpha
UniProt Protein Name	Inhibitor of nuclear factor kappa-B kinase subunit alpha
UniProt Gene Name	CHUK
UniProt Synonym Gene Names	IKKA; TCF16; I-kappa-B kinase alpha; IKK-A; IKK-alpha; IkbKA; IkappaB kinase; IKK1; NFKBKA; TCF-16
UniProt Entry Name	IKKA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/chuk-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/254648>