

Rabbit anti-Human Chk2 Monoclonal Antibody | anti-CHEK2 antibody

Chk2 Rabbit mAb

CATALOG # AAA282733	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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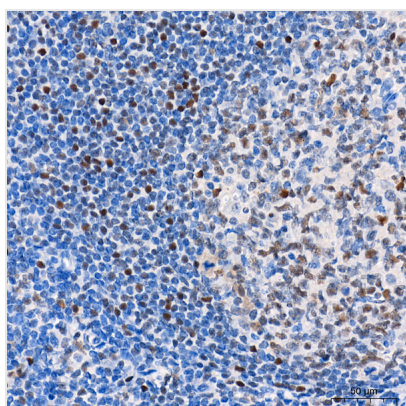
PRODUCT SYNONYMS

Chk2; Monoclonal Antibody; Chk2 Rabbit mAb; CDS1; CHK2; LFS2; RAD53; hCds1; HuCds1; PP1425; anti-CHEK2 antibody

PRODUCT SPECIFICATIONS

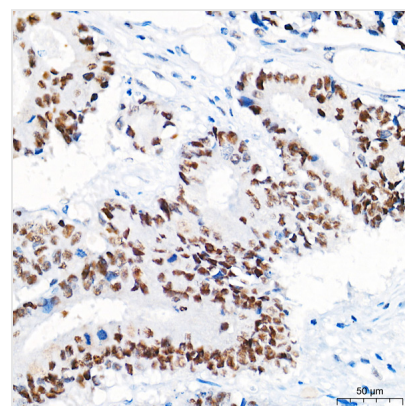
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	MSRES DVEAQ QSHGSSACSQ PHGSVTQSQG SSSQSQGISS SSTSTMPNSS QSSHSSSGTL SSLETVSTQE LYSIPEDQEP EDQEPEEPTP APWARLWALQ
Applicable Applications for anti-CHEK2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Cross Reactivity	Human, Mouse
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Chk2 (O96017).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



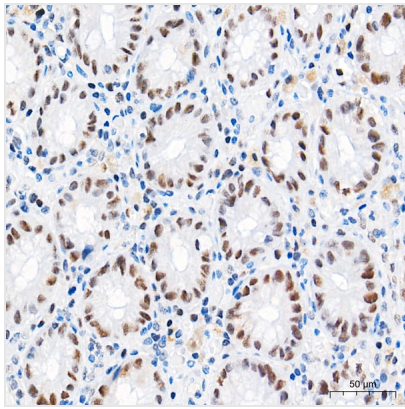
IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using Chk2 Rabbit mAb (AAA282733) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



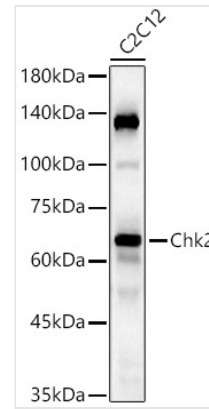
IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human colon cancer tissue using Chk2 Rabbit mAb (AAA282733) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



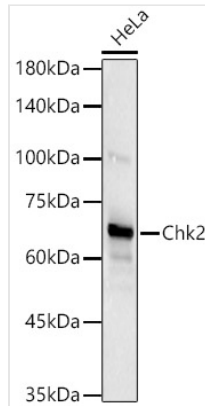
IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Chk2 Rabbit mAb (AAA282733) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



WB (Western Blot)

Western blot analysis of lysates from C2C12 cells, using Chk2 Rabbit mAb (AAA282733) at 1:7000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



WB (Western Blot)

Western blot analysis of lysates from HeLa cells, using Chk2 Rabbit mAb (AAA282733) at 1:7000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-CHEK2 antibody

In response to DNA damage and replication blocks, cell cycle progression is halted through the control of critical cell cycle regulators. The protein encoded by this gene is a cell cycle checkpoint regulator and putative tumor suppressor. It contains a forkhead-associated protein interaction domain essential for activation in response to DNA damage and is rapidly phosphorylated in response to replication blocks and DNA damage. When activated, the encoded protein is known to inhibit CDC25C phosphatase, preventing entry into mitosis, and has been shown to stabilize the tumor suppressor protein p53, leading to cell cycle arrest in G1. In addition, this protein interacts with and phosphorylates BRCA1, allowing BRCA1 to restore survival after DNA damage. Mutations in this gene have been linked with Li-Fraumeni syndrome, a highly penetrant familial cancer phenotype usually associated with inherited mutations in TP53. Also, mutations in this gene are thought to confer a predisposition to sarcomas, breast cancer, and brain tumors. This nuclear protein is a member of the CDS1 subfamily of serine/threonine protein kinases. Several transcript variants encoding different isoforms have been found for this gene.

Product Categories/Family for anti-CHEK2 antibody

[Epigenetics Nuclear Signaling](#); [DNA Damage Repair](#); [Protein phosphorylation](#); [Cancer](#); [Signal Transduction](#); [Kinase](#); [Serine threonine kinases](#); [ATM Signaling Pathway](#); [Cell Biology Developmental Biology](#); [Apoptosis](#); [Cell Cycle](#); [Cell Cycle Control-G1 S Checkpoint](#);

NCBI AND UNIPROT INFORMATION

NCBI GI # [54112407](#)

NCBI GeneID [11200](#)

NCBI Accession #	NP_001005735.1
NCBI GenBank Nucleotide #	NM_001005735.1
UniProt Accession #	O96017 ; Q6QA03 ; Q6QA04 ; Q6QA05 ; Q6QA06 ; Q6QA07 ; Q6QA08 ; Q6QA10 ; A8K3Y9 ; B7ZBF3 ; B7ZBF4 ; B7ZBF5
Molecular Weight	Calculated MW: 15-38kDa/50-65kDa Observed MW: 65kDa
UniProt Protein Name	Serine/threonine-protein kinase Chk2
UniProt Gene Name	CHEK2
UniProt Synonym Gene Names	CDS1; CHK2; RAD53; Hucds1; hCds1
UniProt Entry Name	CHK2_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/monoclonal/chk2-antibody-immunohistochemistry-western-blot-elisa/282733>