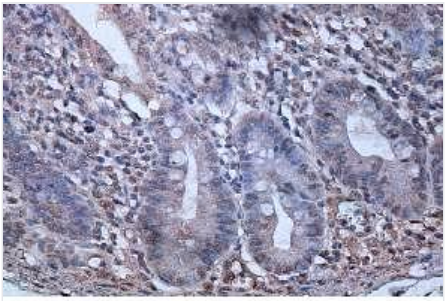
# CSNK2A2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CSNK2A2, Polyclonal Antibody |
| **Full Product Name** | CSNK2A2 Antibody |
| **Product Gene Name** | anti-CSNK2A2 antibody |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human<br>Predicted: Mouse, Rat |
| **Form/Format** | Purified by protein affinity column containing 1% BSA and 0.02% NaN3 |
| **Preparation and Storage** | Already reconstituted in 200ul sterile H2O. The antibody is stable for at least one year when stored at-20 degree C after reconstitution. Avoid repeated freeze/defrost cycles. |
| **Molecular Weight** | 41,213 Da |
| **OMIM** | 115442 |
| **Product Categories/Family for anti-CSNK2A2 antibody** | Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-CSNK2A2 antibody** | ELISA (EIA), Immunohistochemistry (IHC) |
| **Application Notes for anti-CSNK2A2 antibody** | ELISA: 1:20,000-1:80,000<br>IHC: 1:100-1:500 |
| **Related Product Information for anti-CSNK2A2 antibody** | Rabbit polyclonal CSNK2A2 (1) antibody was raised against a recombinate human CSNK2A2 protein 69-310aa (BC008812). |
| **Product References and Citations for anti-CSNK2A2 antibody** | (1) Strausberg, R.L., Feingold, E.A., Grouse, L.H. et al. Generation and initial analysis of more than 15, 000 full-length human and mouse cDNA sequences. Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002). |
| **Other Notes** | Small volumes of anti-CSNK2A2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CSNK2A2 purchase** | MBS8500750 is an antibody targeting CSNK2A2. Also known as CSNK2A2 Antibody. Reactive in Human Predicted: Mouse, Rat. Host: Rabbit. |



Immunohistochemical staining of formalin-fixed paraffin-embedded fetal small intestine showing nucleus staining with anti-CSNK2A2 antibody at a dilution of 1/100.

**Testing Data of anti-CSNK2A2 antibody**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSNK2A2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 38197019 |
| **NCBI GeneID** | 1459 |
| **NCBI Accession #** | BC008812 |
| **UniProt Related Accession #** | P19784 |
| **NCBI Official Full Name** | Homo sapiens casein kinase 2, alpha prime polypeptide, mRNA |
| **NCBI Official Synonym Full Names** | casein kinase 2 alpha 2 |
| **NCBI Official Symbol** | CSNK2A2 |
| **NCBI Official Synonym Symbols** | CK2A2; CSNK2A1; CK2alpha' |
| **UniProt Protein Name** | Casein kinase II subunit alpha' |
| **Protein Family** | Casein kinase |
| **UniProt Gene Name** | CSNK2A2 |
| **UniProt Synonym Gene Names** | CK2A2; CK II alpha' |
| **NCBI Protein Information** | casein kinase II subunit alpha' |
| **NCBI Summary for CSNK2A2** | This gene encodes the alpha', or alpha 2, catalytic subunit of the protein kinase enzyme, casein kinase 2 (CK2). Casein kinase 2 is a serine/threonine protein kinase that phosphorylates acidic proteins such as casein. It is involved in various cellular processes, including cell cycle control, apoptosis, and circadian rhythms. This heterotetrameric kinase includes two catalytic subunits, either alpha or alpha', and two regulatory beta subunits. The closely related gene paralog encoding the alpha, or alpha 1 subunit (CSNK2A1, Gene ID: 1457) is found on chromosome 20. An intronic variant in this gene (alpha 2) may be associated with leukocyte telomere length in a South Asian population. A related transcribed pseudogene is found on chromosome 11. [provided by RefSeq, Aug 2017] |

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| **UniProt Comments for CSNK2A2** | Catalytic subunit of a constitutively active serine/threonine-protein kinase complex that phosphorylates a large number of substrates containing acidic residues C-terminal to the phosphorylated serine or threonine. Regulates numerous cellular processes, such as cell cycle progression, apoptosis and transcription, as well as viral infection. May act as a regulatory node which integrates and coordinates numerous signals leading to an appropriate cellular response. During mitosis, functions as a component of the p53/TP53-dependent spindle assembly checkpoint (SAC) that maintains cyclin-B-CDK1 activity and G2 arrest in response to spindle damage. Also required for p53/TP53-mediated apoptosis, phosphorylating 'Ser-392' of p53/TP53 following UV irradiation. Can also negatively regulate apoptosis. Phosphorylates the caspases CASP9 and CASP2 and the apoptotic regulator NOL3. Phosphorylation protects CASP9 from cleavage and activation by CASP8, and inhibits the dimerization of CASP2 and activation of CASP8. Regulates transcription by direct phosphorylation of RNA polymerases I, II, III and IV. Also phosphorylates and regulates numerous transcription factors including NF-kappa-B, STAT1, CREB1, IRF1, IRF2, ATF1, SRF, MAX, JUN, FOS, MYC and MYB. Phosphorylates Hsp90 and its co-chaperones FKBP4 and CDC37, which is essential for chaperone function. Regulates Wnt signaling by phosphorylating CTNNB1 and the transcription factor LEF1. Acts as an ectokinase that phosphorylates several extracellular proteins. During viral infection, phosphorylates various proteins involved in the viral life cycles of EBV, HSV, HBV, HCV, HIV, CMV and HPV. |
| **Research Articles on CSNK2A2** | **1.** CK2 is required to mediate FXR SUMOylation. |
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