

## Product datasheet for **TA365654S**

### CSNK2A2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 20-100 Positive control: Human gastric cancer Predicted cell location: Nucleus
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human CSNK2A2
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Gene Name:	casein kinase 2 alpha 2
Database Link:	<a href="#">Entrez Gene 1459 Human P19784</a>



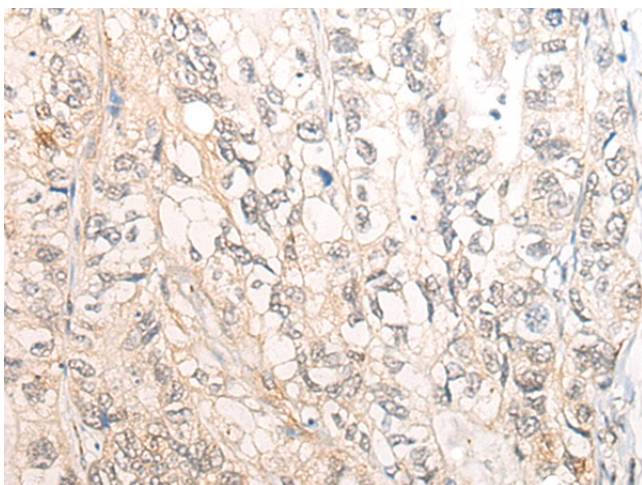
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**Background:**

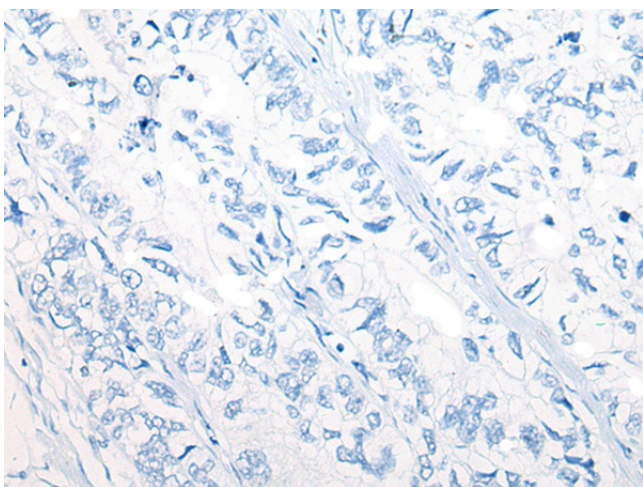
Catalytic subunit of a constitutively active serine/threonine-protein kinase complex that phosphorylates a large number of substrates containing acidic residues C-terminal to the phosphorylated serine or threonine. Regulates numerous cellular processes, such as cell cycle progression, apoptosis and transcription, 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.

**Synonyms:**

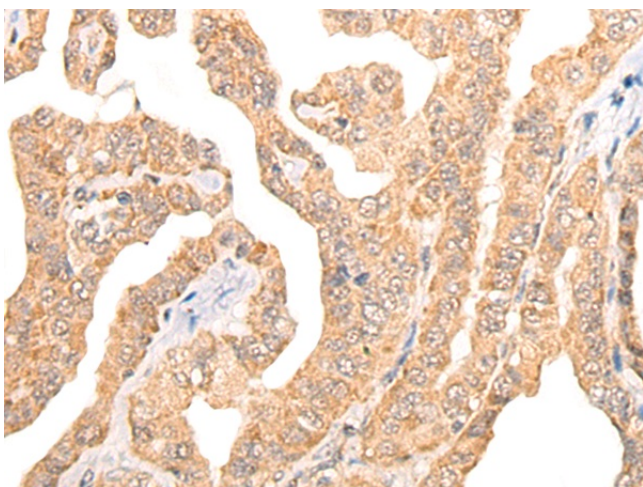
CK2A2; CSNK2A1; FLJ43934

**Product images:**

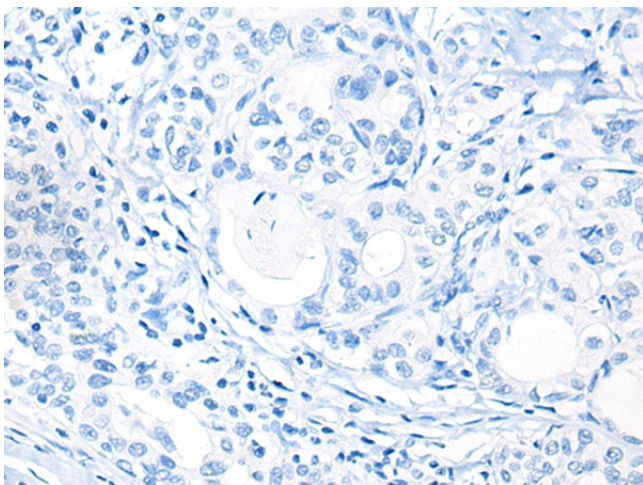
Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA365654] (CSNK2A2 Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA365654] (CSNK2A2 Antibody) at dilution 1/20, treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA365654] (CSNK2A2 Antibody) at dilution 1/20 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA365654] (CSNK2A2 Antibody) at dilution 1/20, treated with fusion protein. (Original magnification: ×200)