

## Anti-CSNK2A2 Antibody (2G557)

## Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2G557
Purification:	Protein A

## Applications

Application:	ELISA
Recommended	ELISA: 1:1000-1:2000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human CSNK2A2 Protein (TMPY-04393)
Antigen Species:	Human
Synonyms:	CSNK2A1;casein kinase 2, $\alpha$ prime polypeptide;casein kinase 2, alpha prime polypeptide;CK2A2

## Research Background

Casein kinase II subunit  $\alpha'$ , also known as CSNK2A2 and CK2A2, is a member of the protein kinase superfamily, Ser/Thr protein kinase family and CK2 subfamily. Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. The  $\alpha$  and  $\alpha'$  chains contain the catalytic site. CSNK2A2 is a tetramer composed of an  $\alpha$  chain, an  $\alpha'$  and two  $\beta$  chains. It is also component of a CK2-SPT16-SSRP1 complex composed of SSRP1, SUPT16H, CSNK2A1, CSNK2A2 and CSNK2B, the complex associating following UV irradiation. Protein kinase casein kinase II (Ck2) is a cyclic-AMP and calcium-independent serine-threonine kinase that is composed of two catalytic subunits ( $\alpha$  and  $\alpha'$ ) and two regulatory  $\beta$ -subunits. Ck2 is not a casein kinase *in vivo*, but over 1 substrates are known. The highly conserved amino acid sequences of its subunits and their broad expression suggest that Ck2 may have a fundamental role in cell function. Ck2 has been implicated in DNA replication, regulation of basal and inducible transcription, translation and control of metabolism. The Ck2 $\alpha$  and Ck2 $\alpha'$  isoforms (products of the genes *Csnk2a1* and *Csnk2a2*, respectively) are highly homologous, the reason for their redundancy and evolutionary conservation is unknown. CSNK2A2 may be a candidate gene for these inherited syndromes.

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