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CSNK1G3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7406a

Specification

CSNK1G3 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9Y6M4
Other Accession	Q62763
Reactivity	**Human**
Predicted	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**350-381**

CSNK1G3 Antibody (C-term) - Additional Information

Gene ID 1456

Other Names
Casein kinase I isoform gamma-3, CKI-gamma 3, CSNK1G3

Target/Specificity
This CSNK1G3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 350-381 amino acids from the C-terminal region of human CSNK1G3.

Dilution
WB~~1:1000
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CSNK1G3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CSNK1G3 Antibody (C-term) - Protein Information

Name CSNK1G3

Function Serine/threonine-protein kinase. Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Regulates fast synaptic transmission mediated by glutamate (By similarity).

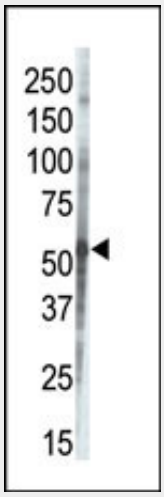
Cellular Location
Cytoplasm.

CSNK1G3 Antibody (C-term) - Protocols

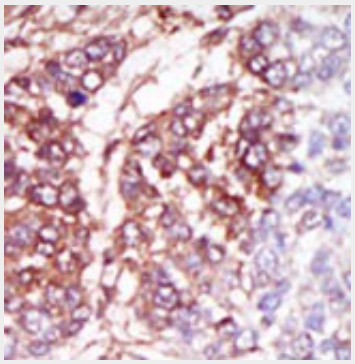
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CSNK1G3 Antibody (C-term) - Images



Western blot analysis of anti-CK1g3 Pab (Cat. #AP7406a) in placenta lysate. CK1g3 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

CSNK1G3 Antibody (C-term) - Background

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The casein kinase 1 (CK1) group consists of 12 kinases including CK1, TTBK (tau tubulin kinase), and VRK (vaccinia-related kinase) families.
The receptor guanylate cyclase (RGC) group consists of 5 kinases similar in domain sequence to TKs (ANP, CYG).

CSNK1G3 Antibody (C-term) - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).
Kusuda, J., et al., Cytogenet. Cell Genet. 83 (1-2), 101-103 (1998).