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CSK Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13748a

Specification

CSK Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	P41240
Other Accession	P32577, P41241, P41239, Q0VBZ0, NP_001120662.1, NP_004374.1
Reactivity	**Human**
Predicted	**Bovine, Chicken, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**50704**
Antigen Region	**33-61**

CSK Antibody (N-term) - Additional Information

Gene ID 1445

Other Names
Tyrosine-protein kinase CSK, C-Src kinase, Protein-tyrosine kinase CYL, CSK

Target/Specificity
This CSK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-61 amino acids from the N-terminal region of human CSK.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
CSK Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CSK Antibody (N-term) - Protein Information

Name CSK

Function Non-receptor tyrosine-protein kinase that plays an important role in the regulation of cell growth, differentiation, migration and immune response. Phosphorylates tyrosine residues located in the C- terminal tails of Src-family kinases (SFKs) including LCK, SRC, HCK, FYN, LYN, CSK or YES1. Upon tail phosphorylation, Src-family members engage in intramolecular interactions between the phosphotyrosine tail and the SH2 domain that result in an inactive conformation. To inhibit SFKs, CSK is recruited to the plasma membrane via binding to transmembrane proteins or adapter proteins located near the plasma membrane. Suppresses signaling by various surface receptors, including T-cell receptor (TCR) and B-cell receptor (BCR) by phosphorylating and maintaining inactive several positive effectors such as FYN or LCK.

Cellular Location
Cytoplasm. Cell membrane. Note=Mainly cytoplasmic, also present in lipid rafts

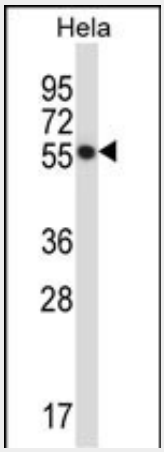
Tissue Location
Expressed in lung and macrophages.

CSK Antibody (N-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

CSK Antibody (N-term) - Images



CSK Antibody (N-term) (Cat. #AP13748a) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the CSK antibody detected the CSK protein (arrow).

CSK Antibody (N-term) - Background

Specifically phosphorylates 'Tyr-504' on LCK, which acts as a negative regulatory site. Can also act on the LYN and FYN kinases.

CSK Antibody (N-term) - References

Niu, W., et al. Clin. Chim. Acta 411 (19-20), 1491-1495 (2010) :
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010)
Mikkola, E.T., et al. J. Mol. Biol. 399(4):618-627(2010)
Takeuchi, F., et al. Circulation 121(21):2302-2309(2010)

CSK Antibody (N-term) - Citations

- Overexpression of Csk-binding protein/phosphoprotein associated with glycosphingolipid-enriched microdomains induces cluster of differentiation 59-mediated apoptosis in Jurkat cells.