10320 Camino Santa Fe, Suite G
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CSK Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1469a

Specification

CSK Antibody - Product Information

Application	**WB, FC, ICC, E**
Primary Accession	P41240
Reactivity	**Human, Mouse, Rat, Monkey**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**50kDa KDa**

Description
Carboxy-terminal Src kinase (Csk) is a ubiquitously expressed nonreceptor tyrosine kinase that negatively regulates the Src family kinases (SFK) by phosphorylation of the SFK carboxy-terminal tyrosine. Phosphorylated carboxy-terminal tyrosine binds to the SH2 domain of SFK intramolecularly and leads to folding and inactivation of the SFK . This Csk-catalyzed SFK tyrosine phosphorylation is highly specific and exclusive. The SFK carboxy-terminal tyrosine is the only known physiological substrate of Csk .Tissue specificity: Expressed in lung and macrophages.

Immunogen
Purified recombinant fragment of human CSK expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

CSK Antibody - Additional Information

Gene ID 1445

Other Names
Tyrosine-protein kinase CSK, 2.7.10.2, C-Src kinase, Protein-tyrosine kinase CYL, CSK

Dilution
WB~~1/500 - 1/2000
FC~~1/200 - 1/400
ICC~~N/A
E~~N/A

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CSK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CSK Antibody - Protein Information

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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 - 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 - Images

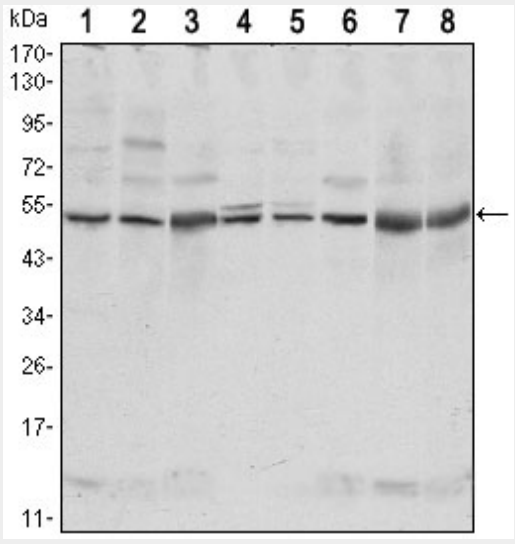

Figure 1: Western blot analysis using CSK mouse mAb against NIH/3T3 (1)，Hela (2)，COS7 (3), Jurkat (4), Raw246.7 (5), A549 (6), HL-60 (7) and PC-12 (8) cell lysate.

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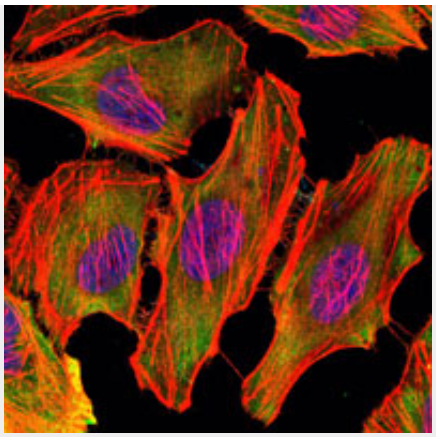

Figure 2: Immunofluorescence analysis of U251 cells using CSK mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

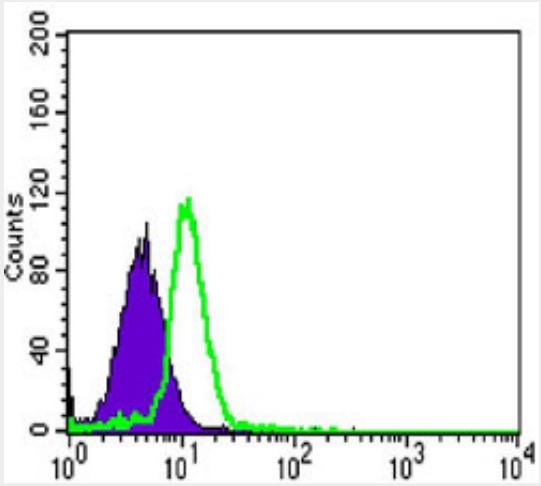

Figure 3: Flow cytometric analysis of HL-60 cells using CSK mouse mAb (green) and negative control (purple).

CSK Antibody - References

1. Nat Genet. 2009 Jun;41(6):677-87. 2. Leuk Res. 2009 Sep;33(9):e168-9. 3. J Hypertens. 2011 Jan;29(1):62-9.