

ARG62966 anti-CSK antibody [CSK-04]

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [CSK-04] recognizes CSK
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, IP, WB
Specificity	The clone CSK-04 reacts with Csk (C-terminal Src kinase), a 50 kDa non-receptor protein tyrosine kinase expressed in cytosol.
Host	Mouse
Clonality	Monoclonal
Clone	CSK-04
Isotype	IgG1
Target Name	CSK
Species	Human
Immunogen	Bacterially expressed recombinant fragment of human Csk corresponding to aa 330-450.
Conjugation	Un-conjugated
Alternate Names	Protein-tyrosine kinase CYL; C-Src kinase; Tyrosine-protein kinase CSK; EC 2.7.10.2

Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	IP	Assay-dependent
	WB	1:250 - 1:300
Application Note	WB: Weak non-specific band of cca 60 kDa is detected in human cell lines in lower antibody dilutions. IP: The immunosorbent (CSK-04 antibody covalently bound to beads) immunoprecipitates Csk from cell lysates. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	ICC/IF: HeLa	

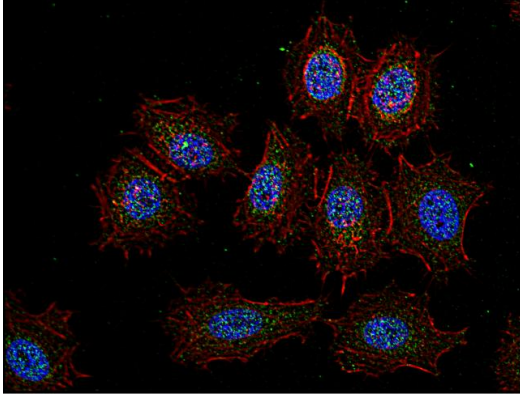
Properties

Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide

Preservative	15 mM Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 12988 Mouse GeneID: 1445 Human Swiss-port # P41240 Human Swiss-port # P41241 Mouse
Gene Symbol	CSK
Gene Full Name	c-src tyrosine kinase
Background	C-terminal Src kinase (Csk) is a non-receptor protein tyrosine kinase which resembles Src-family kinases, but unlike them lacks the conserved autophosphorylation site, the regulatory C-terminal tyrosine as well as myristylation and palmitoylation. Csk negatively regulates Src-family kinases by phosphorylation of their C-terminal regulatory tyrosine. Disruption of the csk gene causes constitutive activation of Src-family kinases, and overexpression of Csk usually counteracts their signaling. The Csk-mediated regulation of those Src-family kinases that are localized in lipid rafts is enabled by a ubiquitously expressed transmembrane adaptor PAG (also known as Cbp, Csk-binding protein), which recruits 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 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. [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30169 Src Family Protein Tyrosine Kinases Antibody Panel Related products: Csk antibodies; Csk Duos / Panels; Anti-Mouse IgG secondary antibodies; Related news: Tools for studying H. pylori diseases
Research Area	Signaling Transduction antibody; Src Family Protein Tyrosine Kinases antibody
Calculated Mw	51 kDa
PTM	Phosphorylated at Ser-364 by PKA, leading to increased activity. Autophosphorylated.



ARG62966 anti-CSK antibody [CSK-04] ICC/IF image

Immunofluorescence: HeLa cells stained with ARG62966 anti-CSK antibody [CSK-04] (green)
Actin cytoskeleton was stained by phalloidin (red) and cell nuclei were stained with DAPI (blue).
