

Technical Data Sheet

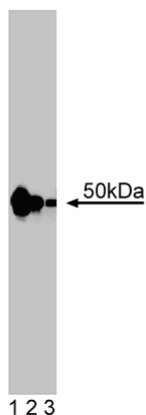
Purified Mouse Anti-Csk

Product Information

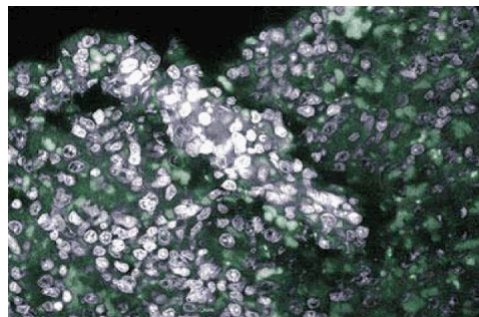
Material Number:	610080
Size:	150 µg
Concentration:	250 µg/ml
Clone:	52/Csk
Immunogen:	Rat Csk aa. 1-156
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Human, Dog, Rat, Chicken
Target MW:	50 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The *csk* gene encodes a protein kinase that phosphorylates several Src family kinases including p60[c-src], p59[fyn], p53/56[lyn], p56[lck], and p62[yes]. This phosphorylation occurs specifically at the carboxy-terminal tyrosine, Y527. Csk (c-src kinase) was identified based on its ability to phosphorylate exogenous Src in mammalian *src*-deficient cells. Establishment of a mouse *csk*- cell line revealed that phosphorylation of Y527 in Src was reduced 20-50%. This correlated with an increase of Src kinase activity, thus indicating Csk is a negative regulator of *src*. *Csk*-deficient cells also show an elevation in the kinase activity of p59[fyn] and p53/56[lyn]. These data suggest that Csk may be a universal negative regulator of Src family kinases in vivo.



Western blot analysis of Csk on mouse macrophage lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of anti-Csk.



Immunohistochemical staining of Rabbit Spleen.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunoprecipitation	Tested During Development
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development

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Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharming/en/protocols/Western_Blotting.shtml.

Suggested Companion Products

Catalog Number	Name	Size	Clone
611479	Mouse Macrophage Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Bénistant C, Bourgaux JF, Chapuis H, Mottet N, Roche S, Bali JP. The COOH-terminal Src kinase Csk is a tumor antigen in human carcinoma. *Cancer Res.* 2001; 61(4):1415-1420.(Clone-specific: Immunofluorescence, Western blot)

Bergman M, Mustelin T, Oetken C. The human p50csk tyrosine kinase phosphorylates p56lck at Tyr-505 and down regulates its catalytic activity. *EMBO J.* 1992; 11(8):2919-2924.(Biology)

Okada M, Nada S, Yamanashi Y, Yamamoto T, Nakagawa H. CSK: a protein-tyrosine kinase involved in regulation of src family kinases. *J Biol Chem.* 1991; 266(36):24249-24252.(Biology)

Takayama Y, Tanaka S, Nagai K, Okada M. Adenovirus-mediated overexpression of C-terminal Src kinase (Csk) in type I astrocytes interferes with cell spreading and attachment to fibronectin. Correlation with tyrosine phosphorylations of paxillin and FAK. *J Biol Chem.* 1999; 274(4):2291-2297.(Clone-specific: Immunoprecipitation)

Wan Y, Bence K, Hata A, Kurosaki T, Veillette A, Huang XY. Genetic evidence for a tyrosine kinase cascade preceding the mitogen-activated protein kinase cascade in vertebrate G protein signaling. *J Biol Chem.* 1999; 272(27):17209-17215.(Clone-specific: In vitro kinase assay, Western blot)