Technical Data Sheet

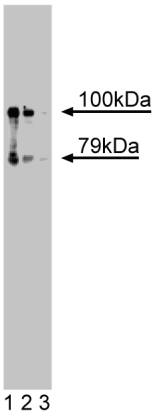
Purified Mouse Anti-Human hCNK1

Product Information

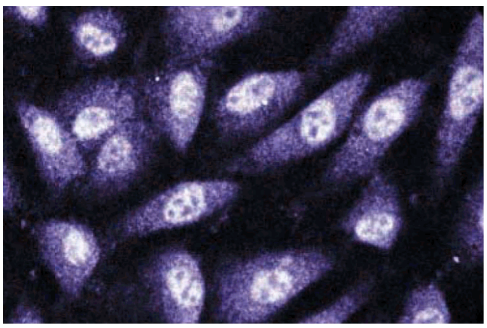
Material Number:	**611734**
Alternate Name:	Connector enhancer of KSR
Size:	50 µg
Concentration:	250 µg/ml
Clone:	46/hCNK1
Immunogen:	Human hCNK1 aa. 10-217
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Target MW:	79-100 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Proteins of the Ras superfamily play critical roles in the control of normal and neoplastic proliferation. These proteins relay signals from Tyr-kinases at the plasma membrane to the nucleus via a network of Ser/Thr kinases that includes the MAP kinase (Raf-MEK-ERK) pathway. Kinase suppressor of Ras (KSR-1) was discovered in *Drosophila* in a genetic screen that identified mutations that suppress constitutively active Ras mutants. Connector enhancer of KSR (CNK) was found in a similar screen to identify mutations that enhance the KSR- dependent phenotype. *Drosophila* CNK contains a sterile alpha motif (SAM), a conserved region in CNK (CRIC), and a PDZ domain in the N-terminal region, a proline-rich and a plecstrin homology (PH) domain in the central region, and a C-terminal Pro-rich domain. The human homologue of CNK (hCNK1) contains similar N-terminal and central domains, but is 713 amino acids in length compared to 1557 amino acids for *Drosophila* CNK. In *Drosophila*, the N-terminal region of CNK facilitates binding to RAS, while the C-terminal region inhibits RAS- and RAF-dependent signaling. Thus, CNK may be important for regulation of both RAS- and RAF-dependent signaling.



Western blot analysis of hCNK1 on a A431 cell lysate (Human epithelial carcinoma; ATCC CRL-1555). *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-human hCNK1 antibody. hCNK1 has a calculated molecular weight of 79 kDa, but may be observable migrating at ~ 100 kDa.*



Immunofluorescence staining of human endothelial cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

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

Suggested Companion Products

Catalog Number	Name	Size	Clone
611447	A431 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/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

Therrien M, Wong AM, Kwan E, Rubin GM. Functional analysis of CNK in RAS signaling. *Cell.* 1999; 96(23):13259-13263.(Biology)
Therrien M, Wong AM, Rubin GM. CNK, a RAF-binding multidomain protein required for RAS signaling. *Cell.* 1998; 95(3):343-353.(Biology)