10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KIST (KIS) Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7063b

Product Information

Application	WB, E
Primary Accession	Q8TAS1
Other Accession	Q63285, NP_787062
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB5431
Calculated MW	46546
Antigen Region	265-295

Additional Information

Gene ID	127933
Other Names	Serine/threonine-protein kinase Kist, Kinase interacting with stathmin, PAM COOH-terminal interactor protein 2, P-CIP2, U2AF homology motif kinase 1, UHMK1, KIS, KIST
Target/Specificity	This KIST (KIS) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 265-295 amino acids from the C-terminal region of human KIST (KIS).
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	KIST (KIS) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UHMK1
Synonyms	KIS, KIST

Function	Upon serum stimulation, phosphorylates CDKN1B/p27Kip1, thus controlling CDKN1B subcellular location and cell cycle progression in G1 phase. May be involved in trafficking and/or processing of RNA (By similarity).
Cellular Location	Nucleus.
Tissue Location	Widely expressed, with highest levels in skeletal muscle, kidney, placenta and peripheral blood leukocytes

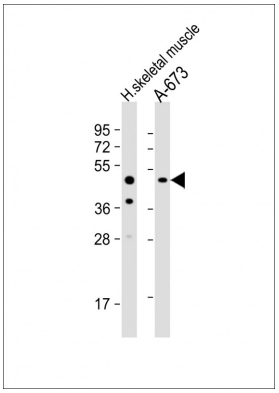
Background

KIST, a member of the Ser/Thr protein kinase family, is a pyruvate kinase that catalyzes formation of phosphoenolpyruvate from pyruvate and ATP. A role for the primarily nuclear KIST protein in mediation of cellular metabolism has been postulated based on the interaction identified with thyroid hormone. KIST is widely expressed, with highest abundance in skeletal muscle, kidney, placenta and peripheral blood leukocytes. Upon serum stimulation, KIST phosphorylates CDKN1B/p27Kip1, thereby regulating the subcellular location of CDKN1B and cell cycle progression in the G1 phase. KIST, which contains one RNA recognition motif domain, has been proposed to partipate in trafficking and processing of RNA. KIST binds to Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells.

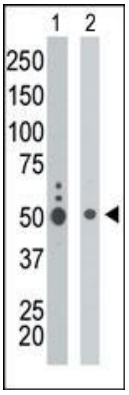
References

Bieche, I., et al., Brain Res. Mol. Brain Res. 114(1):55-64 (2003).
Boehm, M., et al., EMBO J. 21(13):3390-3401 (2002).
Caldwell, B.D., et al., J. Biol. Chem. 274(49):34646-34656 (1999).

Images



All lanes : Anti-KIST Antibody (L280) at 1:1000 dilution Lane 1: human skeletal muscle lysate Lane 2: A-673 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



The anti-KIST Pab (Cat. #AP7063b) is used in Western blot to detect KIST in K562 cell lysate (Lane 1) and mouse liver tissue lysate (Lane 2).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.