

Polyclonal Antibody to DYRK1A (C-term) - Aff - Purified

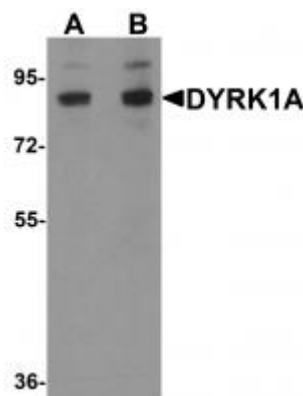
Alternate names:	DYRK, Dual specificity YAK1-related kinase, Dual specificity tyrosine-phosphorylation-regulated kinase 1A, HP86, MNB, MNBH, Protein kinase minibrain homolog
Catalog No.:	TA319637
Quantity:	0.1 mg
Background:	DYRK1A is a member of the dual-specificity tyrosine phosphorylation-regulated kinase (DYRK) family and is thought to be involved in neuronal differentiation, neurodegenerative diseases, and is considered to be a strong candidate gene for learning defects associated with Down syndrome. DYRK1A phosphorylates several transcription factors such as p53, leading to inhibition of embryonic neuronal cell proliferation. DYRK1A associates with multiple proteins, including SPRED1 and SPRED2; this association appears to inhibit the phosphorylation activity of DYRK1A. Recent evidence also suggests that DYRK1A may be involved in the replication of HIV-1.
Uniprot ID:	Q13627
NCBI:	NP_001387
GeneID:	1859
Host:	Rabbit
Immunogen:	17 amino acid peptide near the carboxy terminus of human DYRK1A
Format:	State: Liquid Ig fraction Purification: Affinity chromatography purified via peptide column Buffer System: PBS containing 0.02% sodium azide
Applications:	ELISA. Western blot: 1-2 µg/ml. Positive control: HeLa Cell Lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects DYRK1A at C-term. Multiple isoforms of DYRK1A are known to exist. DYRK1A antibody will not cross-react with other DYRK family members.
Species Reactivity:	Tested: Human, mouse, rat
Storage:	Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Park J, Oh Y, Chung KC. Two key genes closely implicated with the neuropathological characteristics in Down syndrome: DYRK1A and RCAN1. BMB Rep. 2009 Jan 31;42(1):6-15. PubMed PMID: 19192387.

2. Park J, Oh Y, Yoo L, Jung MS, Song WJ, Lee SH, et al. Dyrk1A phosphorylates p53 and inhibits proliferation of embryonic neuronal cells. J Biol Chem. 2010 Oct 8;285(41):31895-906. doi: 10.1074/jbc.M110.147520. Epub 2010 Aug 9. PubMed PMID: 20696760.

3. Li D, Jackson RA, Yusoff P, Guy GR. Direct association of Sprouty-related protein with an EVH1 domain (SPRED) 1 or SPRED2 with DYRK1A modifies substrate/kinase interactions. J Biol Chem. 2010 Nov 12;285(46):35374-85. doi: 10.1074/jbc.M110.148445. Epub 2010 Aug 24. PubMed PMID: 20736167.

Pictures:

Western blot analysis of DYRK1A in HeLa cell lysate with DYRK1A antibody at (A) 1 and (B) 2 ug/mL.



Immunocytochemistry of DYRK1A in HeLa cells with DYRK1A antibody at 10 ug/mL.

