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# Dyrk1A Polyclonal Antibody

Catalog No	YP-Ab-14734
lsotype	lgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	DYRK1A
Protein Name	Dual specificity tyrosine-phosphorylation-regulated kinase 1A
Immunogen	The antiserum was produced against synthesized peptide derived from human DYR1A. AA range:21-70
Specificity	Dyrk1A Polyclonal Antibody detects endogenous levels of Dyrk1A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DYRK1A; DYRK; MNB; MNBH; Dual specificity tyrosine-phosphorylation-regulated kinase 1A; Dual specificity YAK1-related kinase; HP86; Protein kinase minibrain homolog; MNBH; hMNB
Observed Band	90kD
Cell Pathway	Nucleus . Nucleus speckle .
Tissue Specificity	Ubiquitous. Highest levels in skeletal muscle, testis, fetal lung and fetal kidney.
Function	alternative products:Additional isoforms seem to exist,catalytic activity:ATP + a protein = ADP + a phosphoprotein.,developmental stage:Expressed in the developing central nervous system.,disease:Overexpressed 1.5-fold in fetal Dowr syndrome brain.,enzyme regulation:Inhibited by RANBP9.,function:May play a role in a signaling pathway regulating nuclear functions of cell proliferation. Phosphorylates serine, threonine and tyrosine residues in its sequence and in exogenous substrates.,PTM:Autophosphorylated on tyrosine residues.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MNB/DYRK subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts RAD54L2/ARIP4 (By similarity). Interacts with RANBP9.,tissue specificity:Ubiquitous. Highest levels in skeletal muscle, testis, fetal lung and fetal kidney.,



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BackgroundThis gene encodes a member of the Dual-specificity tyrosine<br/>phosphorylation-regulated kinase (DYRK) family. This member contains a nuclear<br/>targeting signal sequence, a protein kinase domain, a leucine zipper motif, and a<br/>highly conservative 13-consecutive-histidine repeat. It catalyzes its<br/>autophosphorylation on serine/threonine and tyrosine residues. It may play a<br/>significant role in a signaling pathway regulating cell proliferation and may be<br/>involved in brain development. This gene is a homolog of Drosophila mnb<br/>(minibrain) gene and rat Dyrk gene. It is localized in the Down syndrome critical<br/>region of chromosome 21, and is considered to be a strong candidate gene for<br/>learning defects associated with Down syndrome. Alternative splicing of this gene<br/>generates several transcript variants differing from each other either in the<br/>5&apos; UTR or in the 3&apos; coMatters needing<br/>attentionThis product can be used in immunological reaction related experiments. For<br/>more information, please consult technical personnel.

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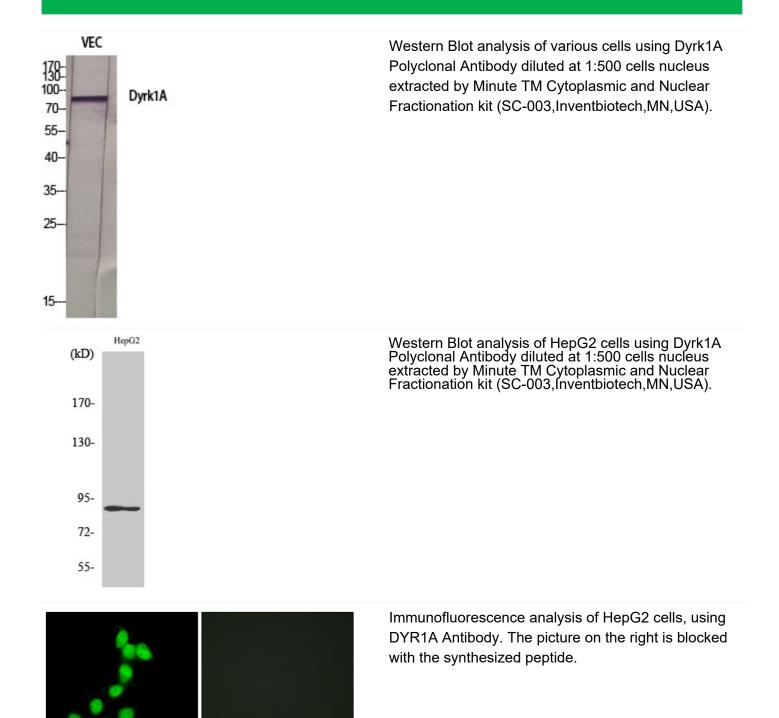


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