

## Dyrk1A rabbit pAb

**Cat#: orb765085 (Manual)**

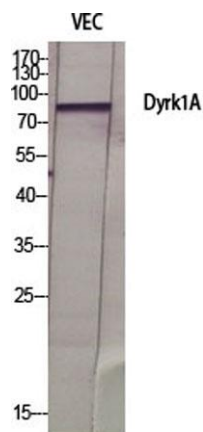
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	Dyrk1A rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	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.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human DYR1A. AA range:21-70
<b>Specificity</b>	Dyrk1A Polyclonal Antibody detects endogenous levels of Dyrk1A protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Dual specificity tyrosine-phosphorylation-regulated kinase 1A
<b>Gene Name</b>	DYRK1A
<b>Cellular localization</b>	Nucleus . Nucleus speckle .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

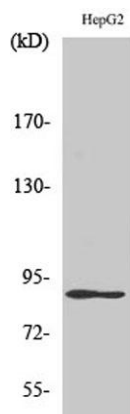
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	90kD
<b>Human Gene ID</b>	1859
<b>Human Swiss-Prot Number</b>	Q13627
<b>Alternative Names</b>	DYRK1A; DYRK; MNB; MNBH; Dual specificity tyrosine-phosphorylation-regulated kinase 1A; Dual specificity YAK1-related kinase; HP86; Protein kinase minibrain homolog; MNBH; hMNB

### Background

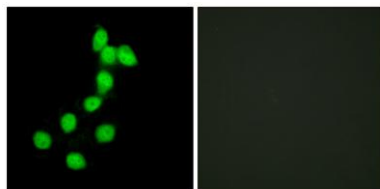
This gene encodes a member of the Dual-specificity tyrosine phosphorylation-regulated kinase (DYRK) family. This member contains a nuclear targeting signal sequence, a protein kinase domain, a leucine zipper motif, and a highly conservative 13-consecutive-histidine repeat. It catalyzes its autophosphorylation on serine/threonine and tyrosine residues. It may play a significant role in a signaling pathway regulating cell proliferation and may be involved in brain development. This gene is a homolog of *Drosophila* *mnb* (minibrain) gene and rat *Dyrk* gene. It is localized in the Down syndrome critical region of chromosome 21, and is considered to be a strong candidate gene for learning defects associated with Down syndrome. Alternative splicing of this gene generates several transcript variants differing from each other either in the 5' UTR or in the 3' co



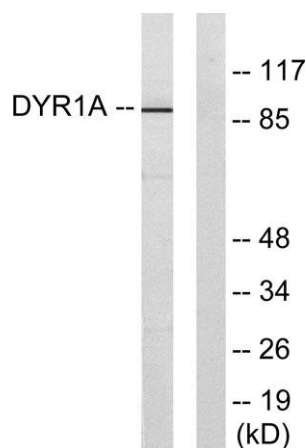
**Western Blot analysis of various cells using Dyrk1A Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).**



**Western Blot analysis of HepG2 cells using Dyrk1A Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).**



**Immunofluorescence analysis of HepG2 cells, using DYR1A Antibody. The picture on the right is blocked with the synthesized peptide.**



**Western blot analysis of lysates from HepG2 cells, using DYR1A Antibody. The lane on the right is blocked with the synthesized peptide.**