

## Product datasheet for **AP06728PU-N**

### **DYRK1A Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50-1/200. <b>Immunofluorescence:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 6-58 of Human Dyrk1A.
Specificity:	This antibody detects endogenous levels of Dyrk1A protein. (region surrounding Gln39)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 90 kDa
Gene Name:	dual specificity tyrosine phosphorylation regulated kinase 1A
Database Link:	<a href="#">Entrez Gene 13548 Mouse</a> <a href="#">Entrez Gene 25255 Rat</a> <a href="#">Entrez Gene 1859 Human Q13627</a>



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**Background:**

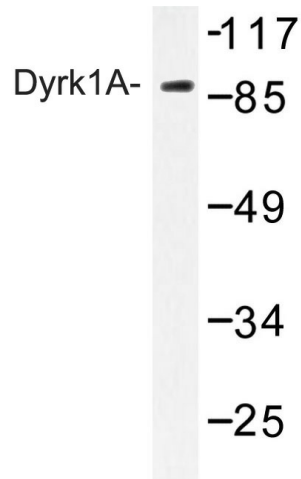
Dyrk (for dual specificity tyrosine phosphorylation regulated kinase) is the homolog of the *Drosophila* *mnb* (minibrain) gene, which is required for neurogenesis. Dyrk is a dual-specificity tyrosine kinase and serine/threonine kinase, which is itself regulated by tyrosine phosphorylation. Several mammalian Dyrk related proteins have been identified and are thought to compose a family of dual specificity protein kinases. Dyrk family members, including Dyrk1A (originally Dyrk), Dyrk1B, Dyrk1C, Dyrk2, Dyrk3, Dyrk4A and Dyrk4B, are thought to be involved in diverse cellular functions. Dyrk1A is a candidate gene that may be involved in Down's syndrome, and it has been found to be somewhat overexpressed in Down's syndrome.

**Synonyms:**

DYRK, MNB, MNBH, Protein kinase minibrain homolog, HP86, Dual specificity YAK1-related kinase

**Protein Families:**

Druggable Genome, Protein Kinase

**Product images:**

Western blot analysis of Dyrk1A antibody in extracts from HepG2 cells.