



Rabbit Anti-Minibrain antibody

SL10483R

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| Product Name: | Minibrain |
| Chinese Name: | Minibrain 抗体 |
| Alias: | MNB_DROME; Serine/threonine-protein kinase minibrain; mnb; Dmel_CG42273; Dmel_CG7826; Dmel_CG7835; CG42273; CG7826; CG7835; Dm1; Dmel\CG42273; Dyrk1; DYRK1; ME-IV; min; Mnb; MNB. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Fruit Fly, |
| Applications: | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 96kDa |
| Cellular localization: | The nucleus |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from Fruitfly Minibrain:1-100/908 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | 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' coding region. These variants encode at least five different isoforms. [provided by RefSeq, Jul 2008]

Function:

Role in the specific control of proper proliferation of optic lobe neuronal progeny.

Subcellular Location:

Nucleus (Potential).

Tissue Specificity:

In ventral nerve cord and supraesophageal ganglion of embryos. Is most prominent in the mushroom body neuropil and the outer proliferation center of the optic lobes in third instar larvae.

Similarity:

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MNB/DYRK subfamily.
Contains 1 protein kinase domain.

SWISS:

P49657

Gene ID:

32771

Database links:

[Entrez Gene: 32771](#) DROME

[SwissProt: P49657](#) Fruit Fly

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.