SunLong Biotech Co.,LTD
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Rabbit Anti-Minibrain antibody

SL10483R

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.
Research Area	Insect
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Fruit Fly,)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	96kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from Fruitfly Minibrain: 1-100/908
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

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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