

Rabbit Anti-DYRK2 antibody

SL12332R

生酪氨酸磷酸化调节激酶DYRK2抗体 BL18Rik; Dual specificity tyrosine (Y) phosphorylation regulated kinase 2; Dual ty tyrosine phosphorylation regulated kinase 2; Dual specificity tyrosine- rylation-regulated kinase 2; DYRK2; DYRK2_HUMAN; EC 2.7.12.1; .7; FLJ21365. mal Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit, 1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100- affin sections need antigen repair) ested in other applications. dilutions/concentrations should be determined by the end user.
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njugated synthetic peptide derived from human DYRK2:425-480/601
ourified by Protein A
BS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
-20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized
y is stable at room temperature for at least one month and for greater than a year pt at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of the antibody is stable for at least two weeks at 2-4 °C.
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the homolog of the Drosophila mnb (minibrain) gene, which is required for
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specificity protein kinases (4). Dyrk family members, including Dyrk1A (originally Dyrk), Dyrk1B, Dryk1C, Dyrk2, Dyrk3, Dyrk4A and Dyrk4B, are thought to be involved in diverse cellular functions (4). Dyrk1A is a candidate gene that may be involved in Downs syndrome, and it has been found to be somewhat overexpressed in Downs syndrome (1,5). Two isoforms of human fetal brain Dyrk2 exist: a deduced 528-amino acid protein and a protein containing 73 additional amino acids at the amino terminus (4). Dyrk3 is strongly expressed in testis, only after the onset of spermatogenesis, and very weakly expressed in spleen and adrenal gland (1). The genes which encode Dyrk2 and Dyrk3 map to human chromosomes 12 and 1q32, respectively (4).

Function:

Role in the regulation of cellular growth and/or development. Regulates TP53 by phosphorylation on Ser-46 to induce apoptosis in response to DNA damage, functioning downstream of ATM. Inactivates GYS1 by phosphorylation at Ser-641, and potentially also a second phosphorylation site, thus regulating glycogen synthesis. Phosphorylates EIF2B5 at Ser-544, enabling its subsequent phosphorylation and inhibition by GSK3, and may play a more general role in the priming of GSK3 substrates.

Subunit:

Component of an E3 ligase complex containing DYRK2, EDD/UBR5, DDB1 and VPRBP (EDVP complex). Interacts directly with EDD/UBR5, DDB1 and VPRBP. Interacts with SIAH2 and MDM2. Interacts with MAP3K10 and NFATC1. May also interact with CCNL2.

Subcellular Location:

Cytoplasm. Nucleus. Translocates into the nucleus following DNA damage.

Tissue Specificity:

Testis, after the onset of spermatogenesis.

Post-translational modifications:

Autophosphorylates cotranslationally on the second tyrosine residue in the Tyr-X-Tyr motif in the activation loop, but once mature, does not have any protein tyrosine kinase activity. Phosphorylated at Thr-106 and Ser-442 by ATM in response to genotoxic stress.

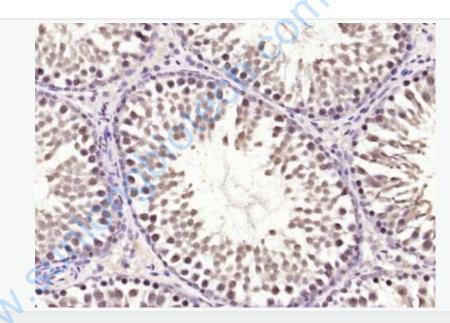
Under normal conditions, polyubiquitinated in the nucleus by MDM2, leading to its proteasomal degradation. Phosphorylation on Thr-106 and Ser-442 by ATM in response to genotoxic stress disrupts MDM2 binding and prevents MDM2-mediated ubiquitination and subsequent proteasomal degradation. Polyubiquitinated by SIAH2, leading to its proteasomal degradation. Polyubiquitinated by SIAH2 occurs under normal conditions, and is enhanced in response to hypoxia.

Similarity:

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

	Contains 1 protein kinase domain.
	SWISS: Q92630
	Gene ID: 8445
	Database links:
	Entrez Gene: 8445Human
	Entrez Gene: 69181 Mouse
	Omim: 603496Human
	Omim: 603496Human SwissProt: Q92630Human SwissProt: Q5U4C9Mouse Unigene: 173135Human Unigene: 45565Mouse Unigene: 458174Mouse
	SwissProt: Q5U4C9Mouse
	Unigene: 173135Human
	Unigene: 45565Mouse
	Unigene: 458174Mouse
	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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Picture:	

Paraformaldehyde-fixed, paraffin embedded (mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DYRK2) Polyclonal Antibody, Unconjugated (SL12332R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DYRK2) Polyclonal Antibody, Unconjugated (SL12332R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.