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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Dyrk (Downs Syndrome critical region). Sheep Polyclonal Antibody
Dual Specificity (Tyrosine and serine/threonine kinase) Kinase

BACKGROUND

Dyrk, the vertebrate of *Drosophila* minibrain, is a dual-specificity kinase predominately expressed in the central nervous system. The human clone has been isolated from the Down's syndrome critical region and it is potentially implicated in the neuropathology of the disease. Main features of the protein include an N-terminal nuclear translocation signal, a putative leucine zipper domain, a core kinase domain with some similarity to kinases involved in cell cycle regulation and a C-terminal PEST sequence. The Dyrk kinase can be phosphorylated on tyrosine residues, leading to an active kinase that can phosphorylate itself or exogenous substrates on both tyrosine and serine/threonine residues. Dyrk can also multimerize and translocate to the nucleus. Present studies on Dyrk suggest a potential role for this kinase in the exit from the cell cycle and the beginning of neuronal differentiation.

ORDERING INFORMATION

CATALOG NUMBER
X1079P

SIZE

100 μ g

FORM

Unconjugated

HOST/CLONE

Sheep

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western Blot, Immunoprecipitation

SPECIES REACTIVITY

Human, Mouse, Rat

ACCESSION NUMBER

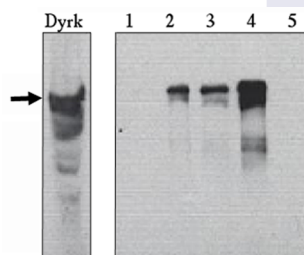
Mouse Q61214

Human Q13627

IMMUNOGEN

Recombinant protein corresponding to amino acids 486 to 763 of the mouse Dyrk1A protein.

Immunoprecipitation of Dyrk from 293T transfected cells. Immunoprecipitation with - 1) control Ab, 2) Anti-MNP 2 μ g/ml, 3) Exalpha's anti-Dyrk 2 μ g/ml, 4) Exalpha's anti-Dyrk 10 μ g/ml, 5) competitor's anti-Dyrk Ab 10 μ g/ml, Western blot performed with Exalpha's anti-Dyrk Ab at 2 μ g/ml.



POSITIVE CONTROL/TISSUE EXPRESSION

Expressed in a variety of embryonic and adult tissues. Expressed abundantly in neurons of the brain, spinal cord, and retina in developing embryos.

COMMENTS

Detects Dyrk by immunofluorescence at 1 to 10 $\mu\text{g/ml}$. Detects Dyrk by Western blot at 1 $\mu\text{g/ml}$. Can also be used for immunoprecipitation. Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Ammonium Sulfate Precipitation

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C . Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Kentrup, H., et al., Dyrk, a dual specificity protein kinase with unique structural features whose activity is dependent on tyrosine residues between subdomains VII and VIII. *J. Biol. Chem.* 1996, 271, 3488-3495.
2. Song, W.-J., et al., Isolation of human and murine homologues of the *Drosophila* minibrain gene: Human homologue maps to 21q22.2 in the Down syndrome critical region. *Genomics* 1996, 38, 331-339.
3. Becker, W. & Joost, H.G. Structural and functional characteristics of Dyrk, a novel subfamily of protein kinases with dual specificity. *Prog. Nucleic Acid Res. Mol. Biol.* 1999, 62, 1-17.