

# Dyrk4 (C-19): sc-51273

## 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 and Dyrk4, are thought to be involved in diverse cellular functions. Dyrk4 is a testis-specific kinase found mainly in post-meiotic spermatids, but has also been implicated in neuronal differentiation. It exists as two isoforms, named Dyrk4A and Dyrk4B, which share greater than 95% sequence homology. Dyrk4 deficiency has been shown to have no effect on male fertility, indicating a possible redundancy in the spermiogenesis pathway.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: DYRK4 (human) mapping to 12p13.32.

## SOURCE

Dyrk4 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Dyrk4 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-51273 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

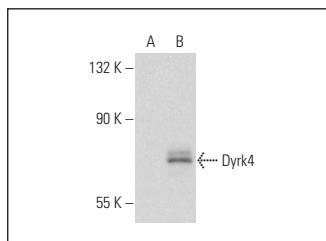
Dyrk4 (C-19) is recommended for detection of Dyrk4 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Dyrk4 siRNA (h): sc-72231, Dyrk4 shRNA Plasmid (h): sc-72231-SH and Dyrk4 shRNA (h) Lentiviral Particles: sc-72231-V.

Molecular Weight of Dyrk4: 60 kDa.

Positive Controls: Dyrk4 (h3): 293 Lysate: sc-158465, Jurkat whole cell lysate: sc-2204 or Hep G2 cell lysate: sc-2227.

## DATA



Dyrk4 (C-19): sc-51273. Western blot analysis of Dyrk4 expression in non-transfected: sc-110760 (A) and human Dyrk4 transfected: sc-158465 (B) 293 whole cell lysates.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.


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Try **Dyrk4 (C-5): sc-393479** or **Dyrk4 (B66): sc-130424**, our highly recommended monoclonal alternatives to Dyrk4 (C-19).