

DYDC2 (9H8): sc-134323

BACKGROUND

The Dumpy-30 (DPY-30) protein was first described in *C. elegans*, in which it is involved in dosage compensation of sex chromosomes. Conserved from yeast to humans, the DPY-30 family is involved in gene expression and chromatin modifications, specifically histone methylation. DPY-30 and closely related proteins contain a short motif that is related to the dimerization motif in the regulatory subunit of protein kinase A (PKA), which consists of two α -helices that form a four-helix bundle during dimerization. As a member of the DPY-30 family, DYDC2 (DPY30 domain-containing protein 2) is a 177 amino acid protein that may inhibit MTF-1-dependent reporter gene expression. Knockdown of DYDC2 mRNA results in male sterility by impairing sperm motility.

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CHROMOSOMAL LOCATION

Genetic locus: DYDC2 (human) mapping to 10q23.1.

SOURCE

DYDC2 (9H8) is a mouse monoclonal antibody raised against recombinant DYDC2 protein of human origin.

PRODUCT

Each vial contains 100 μ g IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

DYDC2 (9H8) is recommended for detection of DYDC2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DYDC2 siRNA (h): sc-90816, DYDC2 shRNA Plasmid (h): sc-90816-SH and DYDC2 shRNA (h) Lentiviral Particles: sc-90816-V.

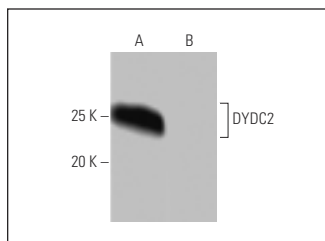
Molecular Weight of DYDC2: 21 kDa.

Positive Controls: human DYDC2 transfected 293T whole cell lysate.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



DYDC2 (9H8): sc-134323. Western blot analysis of DYDC2 expression in human DYDC2 transfected (A) and non-transfected (B) 293T 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.