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Pygopus 2 (m2): 293T Lysate: sc-122857

BACKGROUND

Pygopus 2, also known as PYG02, is a 406 amino acid protein that is the human homolog of the *Drosophila* Pygopus protein. Localized to the nucleus, Pygopus 2 contains one PHD finger that interacts with the homology domain of the Wnt signaling protein Bcl-9. This interaction joins Pygopus 2 with the β -catenin/TCF complex (a crucial complex in Wnt signaling), thereby allowing β -catenin to transcriptionally activate Wnt target genes. Association of Pygopus 2 with proteins involved in the Wnt signaling pathway is thought to regulate proper signal transduction, as absence of the Pygopus 2/ β -catenin interaction may play a role in development of B cell malignancies. In addition, Pygopus 2 expression is upregulated in and required for the growth of breast cancer cells, suggesting a crucial role in carcinogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Pygo2 (mouse) mapping to 3 F1.

PRODUCT

Pygopus 2 (m2): 293T Lysate represents a lysate of mouse Pygopus 2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

Pygopus 2 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Pygopus 2 antibodies. Recommended use: 10-20 μ l per lane.

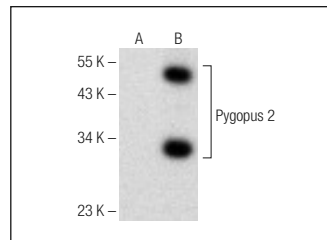
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Pygopus 2 (B-4): sc-373994 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Pygopus 2 expression in Pygopus 2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

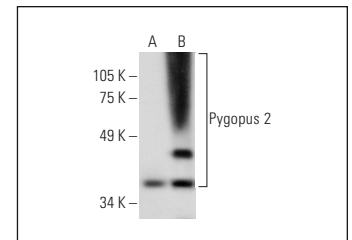
RECOMMENDED SUPPORT REAGENTS

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.

DATA



Pygopus 2 (B-4): sc-373994. Western blot analysis of Pygopus 2 expression in non-transfected: sc-117752 (A) and mouse Pygopus 2 transfected: sc-122857 (B) 293T whole cell lysates.



Pygopus 2 (B-8): sc-390528. Western blot analysis of Pygopus 2 expression in non-transfected: sc-117752 (A) and mouse Pygopus 2 transfected: sc-122857 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.