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SANTA CRUZ BIOTECHNOLOGY, INC.

Vangl2 (m): 293T Lysate: sc-124536

BACKGROUND

The Vang family of proteins are integral membrane proteins that are homologs of the *Drosophila* tissue polarity gene strabismus. The gene encoding for Van Gogh-like protein 1 (Vangl1), also designated Strabismus 2 (STB2), localizes to chromosome 1p13.1. Van Gogh-like protein 2 (Vangl2), also designated Strabismus1 (STB1), localizes on chromosome 1q23.2. Vangl1 is expressed in testis and ovary, but also in gastric and pancreatic cancer. Vangl proteins play a key developmental role in establishing planar cell polarity (PCP) and in regulating convergent extension (CE) movements during embryogenesis. Vangl1 and Vangl2 are both downregulated in several cancer cell lines and primary tumors.

REFERENCES

1. Torban, E., et al. 2004. Independent mutations in mouse Vangl2 that cause neural tube defects in looptail mice impair interaction with members of the dishevelled family. J. Biol. Chem. 279: 52703-52713.
2. Torban, E., et al. 2004. Van Gogh-like2 (Strabismus) and its role in planar cell polarity and convergent extension in vertebrates. Trends Genet. 20: 570-577.
3. Lu, X., et al. 2004. PTK7/CCK-4 is a novel regulator of planar cell polarity in vertebrates. Nature 430: 93-98.
4. Jessen, J.R., et al. 2004. Identification and developmental expression pattern of Van Gogh-like 1, a second zebrafish strabismus homologue. Gene Expr. Patterns 4: 339-344.
5. Katoh, M., et al. 2005. Identification and characterization of rat Ankrd6 gene in silico. Int. J. Mol. Med. 15: 359-363.
6. Phillips, H.M., et al. 2005. Vangl2 acts via RhoA signaling to regulate polarized cell movements during development of the proximal outflow tract. Circ. Res. 96: 292-299.

CHROMOSOMAL LOCATION

Genetic locus: Vangl2 (mouse) mapping to 1 H3.

PRODUCT

Vangl2 (m): 293T Lysate represents a lysate of mouse Vangl2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

Vangl2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Vangl2 antibodies. Recommended use: 10-20 µl per lane.

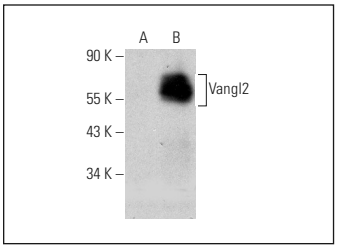
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Vangl2 (C-8): sc-515154 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Vangl2 expression in Vangl2 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-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

DATA



Vangl2 (C-8): sc-515154. Western blot analysis of Vangl2 expression in non-transfected: sc-117752 (**A**) and mouse Vangl2 transfected: sc-124536 (**B**) 293T whole cell lysates.

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.

PROTOCOLS

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