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# Vangl1 (h2): 293T Lysate: sc-117119

## BACKGROUND

The Vang family of proteins are integral membrane proteins that are homologues of the *Drosophila* tissue polarity gene strabismus. The gene encoding for Van Gogh-like protein 1 (Vangl1), also designated Strabismus 2 (STB2), localizes to human chromosome 1p11-p13.1. Van Gogh-like protein 2 (Vangl2), also designated Strabismus 1 (STB1), localizes to chromosome 1q22-q23. Vangl1 is expressed primarily in testis and ovary, but is also expressed 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. Van Gogh-like 2 (Strabismus) and its role in planar cell polarity and convergent extension in vertebrates. *Trends Genet.* 20: 570-577.
2. 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.
3. 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.
4. Lu, X., et al. 2004. PTK7/CCK-4 is a novel regulator of planar cell polarity in vertebrates. *Nature* 430: 93-98.
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: VANGL1 (human) mapping to 1p13.1.

## PRODUCT

Vangl1 (h2): 293T Lysate represents a lysate of human Vangl1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

Vangl1 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Vangl1 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.

## 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.