**VanGogh-like 2 (Strabismus) and its role in planar cell polarity (PCP) and in regulating convergent extension (CE) movements during embryogenesis. VanG1 and VanG2 are both downregulated in several cancer cell lines and primary tumors.**

**REFERENCES**

**CHROMOSOMAL LOCATION**
Genetic locus: VANGL1 (human) mapping to 1p13.1; VanG1 (mouse) mapping to 3 F2.2.

**SOURCE**
VanG1 (E-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 275-305 within a cytoplasmic domain of VanG1 of human origin.

**PRODUCT**
Each vial contains 200 µg IgG, kappa light chain in 1 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.
VanG1 (E-3) is available conjugated to agarose (sc-166844 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166844 HRP), 200 µg/ml, for WB, IHC, and ELISA; to either phycocerythrin (sc-166844 PE), fluorescein (sc-166844 FITC), Alexa Fluor® 488 (sc-166844 AF488), Alexa Fluor® 546 (sc-166844 AF546), Alexa Fluor® 594 (sc-166844 AF594) or Alexa Fluor® 647 (sc-166844 AF647), 200 µg/ml, for WB (RGB), IF, IHC, and FCM; and to either Alexa Fluor® 680 (sc-166844 AF680) or Alexa Fluor® 790 (sc-166844 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF, and FCM.
 Blocking peptide available for competition studies, sc-166844 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**
VanG1 (E-3) is recommended for detection of VanG1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

VanG1 (E-3) is also recommended for detection of VanG1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for VanG1 siRNA (h): sc-45789, VanG1 siRNA (m): sc-45790, VanG1 shRNA Plasmid (h): sc-45789-SH, VanG1 shRNA Plasmid (m): sc-45790-SH, VanG1 shRNA (h) Lentiviral Particles: sc-45789-V and VanG1 shRNA (m) Lentiviral Particles: sc-45790-V.

Molecular Weight of VanG1: 66 kDa.
Positive Controls: SW-13 cell lysate: sc-24778, CHO-K1 cell lysate: sc-3809 or VanG1 (h2): 293T Lysate: sc-117119.

**DATA**

**SELECT PRODUCT CitATIONS**

**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.

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