VANGL1 polyclonal antibody

Catalog: BS61737 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

Van Gogh-like proteins (VANGL1, VANGL2) are human orthologs of Drosophila Van Gogh (Vang/Stbm), a multi-pass transmembrane protein that is required to establish cell polarity in embryonic eyes, legs, and bristles. As in Drosophila, mammalian VANGL proteins are core components of the planar cell polarity (PCP) pathway that promotes asymmetric orientation of cells across a planar surface, and drives convergence-extension movements that are critical for tissue morphogenesis. Mutations in the human VANGL1 gene have been identified in patients diagnosed with neural tube defects (e.g., spina bifida), providing evidence that VANGL1 plays a role in human embryonic morphogenesis. These findings are supported by genetic studies in mice, where mutations in both Vangl1 and Vangl2 result in neural tube defects. A possible role for VANGL in tumor progression is suggested by an increased expression of VANGL1 mRNA in breast cancer patients with an elevated risk of relapse.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 60 kDa

Swiss-Prot:

Q8TAA9

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

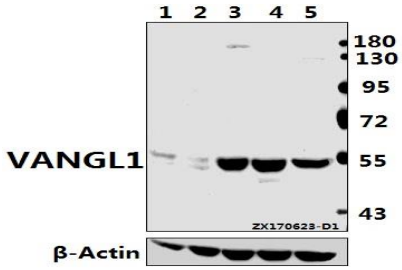
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

VANGL1 polyclonal antibody detects endogenous levels of VANGL1 protein.

DATA:



Western blot (WB) analysis of VANGL1 polyclonal antibody at 1:500 dilution

Lane1:PC12 whole cell lysate(40ug)

Lane2:CT26 whole cell lysate(40ug)

Lane3:MCF-7 whole cell lysate(40ug)

Lane4:A549 whole cell lysate(40ug)

Lane5:SK-OVCAR3 whole cell lysate(40ug)

Note:

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

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