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## 11-10013: Polyclonal Antibody to Vang like-1

Clonality: Polyclonal

Application: WB
Reactivity: Human
Gene: VANGL1
Gene ID: 81839
Uniprot ID: Q8TAA9
Format: Purified
Alternative Name: VANGL1,STB2

Alternative Name: VANGL1,STB

Isotype: Rabbit IgG

Immunogen Information: A partial length recombinant Vang like-1 protein (amino acids 148-400) was used as the

immunogen for this antibody.

## **Description**

Vangl1 (VANGL planar cell polarity protein 1) is an integral membrane protein that belongs to the tetraspanin family having four transmembrane domains. Tetraspanins form large multimolecular complexes on the cell membrane and are involved in cellular signaling, membrane formation, and migration. Vangl1 is expressed at the plasma membrane of different tissues and play a critical role in establishing planar cell polarity (PCP) in epithelial cells and are required for convergent extension (CE) movements during embryogenesis. It is a highly conserved and have evolved from a single ancestral protein Strabismus/Van Gogh found in Drosophila. Mutations in the vangl1 gene cause NTDs (neural tube defects). Ser/Thr phosphorylation of Vangl1 serves as an effector mediating the ITF healing response of the intestinal mucosa. In colon carcinoma cell lines, Vangl1 interacts with KAl1 (CD82) tumor metastasis suppressor. Vangl1 overexpression increases motility and metastasis, whereas its inhibition decreases motility and metastasis of colon cancer confirming migratory phenotype for Vangl1 in colonic epithelial cells.

## **Product Info**

**Amount:** 25 μg / 100 μg

**Purification:** Protein A Chromatography

**Content:** 25 μg in 50 μl/100 μg in 200 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium

azide is highly toxic.

**Storage condition :** Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

## **Application Note**

Western blot analysis: 2-4 ̸µg/ml

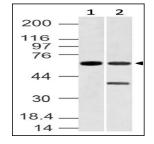


Fig-1: Western blot analysis of Vang like-1. Anti-Vang like-1 antibody (11-10013) was used at 4  $\mu$ g/ml on (1) Jurkat and (2) Liver lysates.