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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
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 KAI1 (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 Ã‚µg/ml

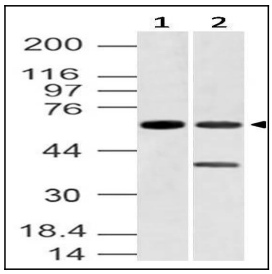


Fig-1: Western blot analysis of Vang like-1. Anti-Vang like-1 antibody (11-10013) was used at 4 µg/ml on (1) Jurkat and (2) Liver lysates.

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