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VANGL2 Blocking Peptide (N-term)

Synthetic peptide
Catalog # BP20148a

Specification

VANGL2 Blocking Peptide (N-term) - Product Information

Primary Accession	Q9ULK5
Other Accession	P84889, Q91ZD4, NP_065068.1

VANGL2 Blocking Peptide (N-term) - Additional Information

Gene ID 57216

Other Names
Vang-like protein 2, Loop-tail protein 1 homolog, Strabismus 1, Van Gogh-like protein 2, VANGL2, KIAA1215, STB1

Target/Specificity
The synthetic peptide sequence is selected from aa 52-65 of HUMAN VANGL2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

VANGL2 Blocking Peptide (N-term) - Protein Information

Name VANGL2

Synonyms KIAA1215, STB1

Function
Involved in the control of early morphogenesis and patterning of both axial midline structures and the development of neural plate. Plays a role in the regulation of planar cell polarity, particularly in the orientation of stereociliary bundles in the cochlea. Required for polarization and movement of myocardializing cells in the outflow tract and seems to act via RHOA signaling to regulate this process. Required for cell surface localization of FZD3 and FZD6 in the inner ear (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein

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VANGL2 Blocking Peptide (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

VANGL2 Blocking Peptide (N-term) - Images

VANGL2 Blocking Peptide (N-term) - Background

Planar cell polarity (PCP) is the term given to global cell polarization, such as the alignment of mammalian body hair along the anterior-posterior axis or the orientation of steriocilia bundles in the inner ear. VANGL2 is a PCP protein that is involved in the transmission of directional cues to align either individual cells within an epithelial sheet or multicellular clusters, which polarize as a group (Devenport and Fuchs, 2008 [PubMed 18849982]).

VANGL2 Blocking Peptide (N-term) - References

Lei, Y.P., et al. N. Engl. J. Med. 362(23):2232-2235(2010)
Yates, L.L., et al. Hum. Mol. Genet. 19(11):2251-2267(2010)
Cantrell, V.A., et al. Cancer Lett. 287(1):54-61(2010)
Need, A.C., et al. Hum. Mol. Genet. 18(23):4650-4661(2009)
Devenport, D., et al. Nat. Cell Biol. 10(11):1257-1268(2008)