

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Vang-like Protein 1/VANGL1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, slight cross-reactivity with recombinant human VANGL2 is observed.                                                                                         |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 497707                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human Vang-like Protein 1/VANGL1<br>Glu242-Val524<br>Accession # Q8TAA9                                                                                                                                                                 |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Human Van Gogh-like protein 1 (VANGL1; also Vang-like Protein 1, strabismus 2, loop tail protein 2 homolog, LPP2) is a 60 kDa (predicted) member of the Vang family of proteins. VANGL1 is 524 amino acids (aa) in length and contains four transmembrane regions and the C-terminal Ser/Thr-X-Val motif, but lacks a signal sequence. There are two isoforms for VANGL1. In isoform 2, residues 67-68 found in isoform 1 are deleted. Human VANGL1 shares 95% aa sequence identity with mouse VANGL1. The glycoprotein is ubiquitously expressed in normal tissues and is upregulated in many cancer cell lines. VANGL1 is predicted to be a tumor suppressor gene. Mutations in VANGL1 are associated with neural tube defects.

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