

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Tiki2/TRABD2B in direct ELISAs and Western blots.                                                                                                                                                                                                             |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Human embryonic kidney cell line HEK293-derived transfected with human Tiki2/TRABD2B<br>Accession # A6NFA1                                                                                                                                                                  |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 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>Flow Cytometry</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

TIKI2, encoded by the TRABD2B gene, is a 517 aminoacid metalloproteinase that acts as a negative regulator of Wnt signaling by mediating the cleavage of N-terminal residues in many of Wnt proteins. Tiki metalloproteins are dependent on Mn<sup>2+</sup>/Co<sup>2+</sup> and are inhibited by divalent metal chelators like EDTA. The other known Tiki protein in human, Tiki1, is required for head formation via Wnt cleavage-oxidation and inactivation, but lacks known metalloprotease motifs. TIKI2 is upregulated in renal cell carcinoma and it appears to suppress growth of osteosarcoma by targeting the canonical Wnt pathway

#### PRODUCT SPECIFIC NOTICES

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