

## Mouse Thyroid Hormone Receptor Interactor 6 (TRIP6) ELISA Kit-Sandwich

**Cat. No.: EK6F359**

**Product Type: Animal Immunoassay Kits**

**Size: 48T;96T**

### Product Overview

BioVenic Mouse Thyroid Hormone Receptor Interactor 6 (TRIP6) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse TRIP6 in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

### Specifications

|                    |                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------|
| Assay Type         | ELISA-Sandwich                                                                                        |
| Specificity        | The assay kit is specific for Mouse Thyroid Hormone Receptor Interactor 6 (TRIP6).                    |
| Target Species     | Mouse                                                                                                 |
| Species Reactivity | Mouse                                                                                                 |
| Detection Range    | 0.32-20 ng/mL                                                                                         |
| Reproducibility    | Intra-Assay: CV < 10%; Inter-Assay: CV < 12%                                                          |
| Assay Time         | Around 90 min                                                                                         |
| Sample Requirement | Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids. |

### Target Information

TRIP6 is crucial for ciliogenesis and the differentiation of ependymal cells in the mouse brain. It is expressed in both ependymal cells and choroid plexus epithelial cells, facilitating the growth and elongation of cilia through interactions with GRIP1 and myosin VI. When TRIP6 is absent, there is a noticeable reduction in the number and length of cilia, which impairs their normal function. Furthermore, TRIP6 plays a role in assembling the ciliary basal body, a vital step for cilia formation. In mice lacking TRIP6, approximately 43% exhibit obstructive hydrocephalus due to impaired differentiation of ependymal cells and cilia formation. Although there is no significant increase in intracerebral pressure, the primary causes of hydrocephalus are the diminished cilia and the thinning of the ependymal cell layer.

|                  |                                                                 |
|------------------|-----------------------------------------------------------------|
| Target/Biomarker | Mouse TRIP6                                                     |
| Target Synonym   | OIP1; ZRP-1; Opa-interacting protein 1; Zyxin-related protein 1 |
| UniProt ID       | <a href="#">Q3TMB5</a>                                          |

## Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

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The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.