

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human SLITRK6 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) SLITRK2, rhSLITRK4, and rhSLITRK6 is observed.                                                                                        |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human SLITRK6<br>Ile16-Ala604<br>Accession # Q9H5Y7                                                                                                                                                                         |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

SLITRK6 (Slit and NTRK-like 6) is a 95 kDa (predicted) member of the SLITRK family of proteins. It is widely expressed in the embryo, including cells in limb bud mesenchyme, visceral organ primordia, cells of the dorsal thalamus, and cochlear plus vestibular sensory epithelium. In the ear, SLITRK6 is suggested to induce neurotrophin expression from cells, thus promoting sensory neuron survival and axon pathfinding. Mature human SLITRK6 is an 826 amino acid (aa) type I transmembrane protein. It contains a 593 aa extracellular domain (ECD) (aa 16-608) plus a 212 aa cytoplasmic region. The ECD possesses two LRR clusters, one that involves seven LRRs (aa 27-269), and a second that involves eight LRRs (aa 320-568). Over aa 16-604, human SLITRK6 shares 89% aa sequence identity with mouse SLITRK6.

## PRODUCT SPECIFIC NOTICES

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