

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human NK1R in direct ELISAs.                                                                                                                                                                                                                                        |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 694549                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | HEK293 human embryonic kidney cell line transfected with human NK1R<br>Accession # P25103                                                                                                                                                                                   |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 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

NK1R (Neurokinin-1 receptor), gene name TACR1 (tachykinin receptor-1), is an ~80 kDa 7-transmembrane glycoprotein receptor for the proinflammatory tachykinin neuropeptide, substance P. NK1R is constitutively or inducibly expressed on a wide variety of cells, including monocytes, macrophages, microglia, lymphocytes, neutrophils, mast cells, and neurons. The 407 amino acid (aa) human NK1R contains 89 extracellular aa over multiple segments which collectively share 92% aa identity with corresponding regions of mouse and rat NK1R. A ~50 kDa short isoform that ends at aa 311 lacks almost all of the C-terminal cytoplasmic signaling region. It is the only form expressed in human monocytes and undifferentiated THP-1 cells, and its function appears to differ from the long isoform.

## PRODUCT SPECIFIC NOTICES

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