

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                           |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human P2X7/P2RX7 in direct ELISA.                                       |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2A</sub> Clone # 1058610                              |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                      |
| <b>Immunogen</b>                                                                                                                                                                                        | Human P2X7/P2RX7 synthetic peptide<br>Accession # Q99572                        |
| <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                    |
| *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.

**Immunohistochemistry** 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

Human P2X purinoceptor 7 (aka P2X7) is a 595 aminoacids (aa) protein encoded by the P2RX7 gene. P2X7 receptors belong to the family of ATP-gated ion channels, and their activity can be found in cells of hemopoietic lineage including macrophages, microglia, and certain lymphocytes. They mediate the influx of Ca<sup>2+</sup> and Na<sup>+</sup> and the release of pro-inflammatory cytokines. At least 8 different human P2X7 isoforms formed by alternative splicing have been reported, ranging from 128 aa to 595 aa. The P2X7 subunits can form homomeric receptors only with a typical P2X receptor structure.

## PRODUCT SPECIFIC NOTICES

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