

#### 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 # 1058613
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human P2X7/P2RX7 synthetic peptide Accession # Q99572
<b>Conjugate</b>	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.

<b>Flow Cytometry</b>	Titration recommended for optimal concentration with starting range of 0.1-1 µg/1 million cells. Sample used for this experiment was Hek 293 cells transfected with Human P2RX7 peptide and eGFP.
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#### 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>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### 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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