

DESCRIPTION

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| Species Reactivity | Human |
| Specificity | Detects human P2X7/P2RX7 in direct ELISA. |
| Source | Monoclonal Mouse IgG _{2A} Clone # 1058613 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Human P2X7/P2RX7 synthetic peptide Accession # Q99572 |
| Conjugate | Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm |
| Formulation | 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.

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| Flow Cytometry | 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

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| 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. <ul style="list-style-type: none"> 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 Ca²⁺ and Na⁺ 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.

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