

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human P2X7/P2RX7 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 545230
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human P2X7/P2RX7 Asp356-Tyr595 Accession # Q99572
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	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.

Immunocytochemistry 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 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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