

Anti-P2XR4 Reference Antibody (Medimmune patent anti-P2XR4)

Catalog # APR11439

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q99571
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	43369

Additional Information

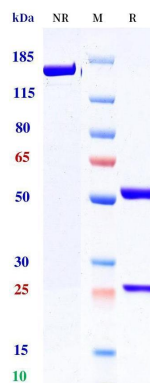
Target/Specificity	P2XR4
Expression system	CHO

Protein Information

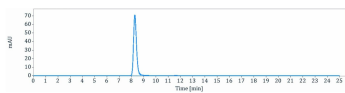
Name	P2RX4
Function	ATP-gated nonselective transmembrane cation channel permeable to potassium, sodium and calcium (PubMed: 9016352). CTP, but not GTP or UTP, functions as a weak affinity agonist for P2RX4 (By similarity). Activated by extracellularly released ATP, it plays multiple role in immunity and central nervous system physiology (PubMed: 35165166). Plays a key role in initial steps of T-cell activation and Ca(2+) microdomain formation (By similarity). Also participates in basal T-cell activity without TCR/CD3 stimulation (By similarity). Promotes the differentiation and activation of Th17 cells via expression of retinoic acid-related orphan receptor C/RORC (PubMed: 35165166). Upon activation, drives microglia motility via the PI3K/Akt pathway (By similarity). Could also function as an ATP-gated cation channel of lysosomal membranes (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein {ECO:0000250 UniProtKB:F8W463}. Lysosome membrane; Multi-pass membrane protein

Images

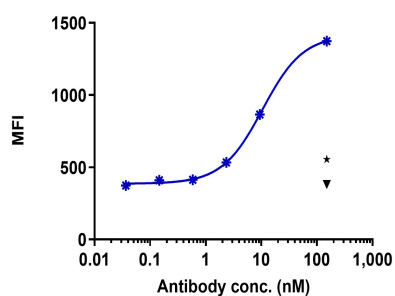
Anti-P2XR4 Reference Antibody (Medimmune patent anti-P2XR4) on SDS-PAGE under reducing (R) condition.



The purity of the protein is greater than 95%.



The purity of Anti-P2XR4 Reference Antibody (Medimmune patent anti-P2XR4) is 99.46%, determined by SEC-HPLC.



PLVX-puro-P2XR4-FL cell line were stained with Medimmune patent anti-P2XR4 and negative control protein respectively, washed and then followed by PE and analyzed with FACS, with the EC₅₀ is 10.52 nM.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.