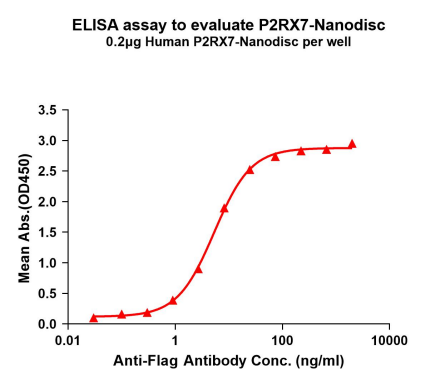
VLP/Nanodisc | Full-Length | HuPro®

P2RX7 (Human) Recombinant Protein

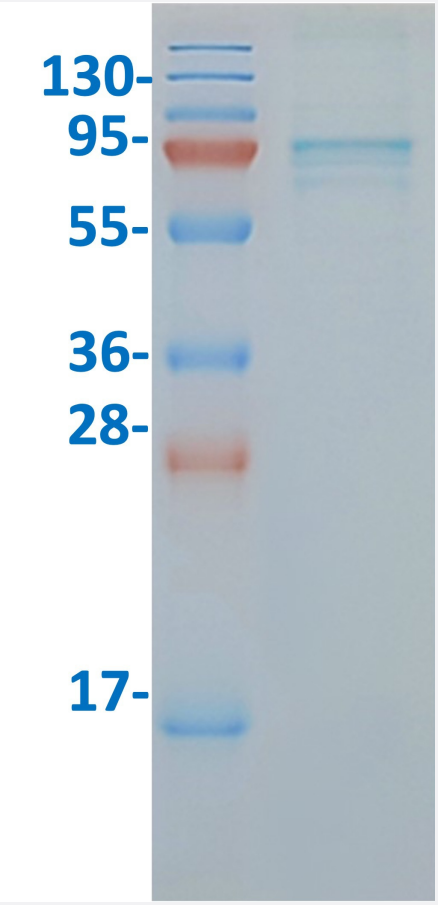
Catalog # P10784 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

ELISA plates were pre-coated with Flag Tag P2RX7-Nanodisc (0.2 ug/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before ELISA reading. From above data, the EC_{50} for anti-Flag monoclonal antibody binding with P2RX7-Nanodisc is 5.349 ng/mL.



SDS-PAGE

Human P2RX7-Nanodisc, Flag Tag on SDS-PAGE.

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Specification

Product Description	Human P2RX7 (Q99572, 1 a.a. - 595 a.a.) full-length recombinant protein-Nanodisc.
Sequence	MPACCSCSDVFQYETNKVTRIQSMNYGTIKWFFHVIIFSYVCFALVSDKLYQRKEPVISS VHTKVK GIAEVKEEIVENGVKKLVHSVFDTADYTFPLQGNSFFVMTNFLKTEGQEQRLCP EYPTRRTLCSS DRGCKKGWMDPQSKGIQTGRCVVYEGNQKTCEVSAWCPIEAVEEAPRPA LLNSAENFTVLIKN NIDFPGHNYTTRNILPGLNITCTFHKTQNPQCPIFRLGDIFRETGD NFSDVAIQGGIMGIEIYWDCNLD RWFHHCRPKYSFRRLDDKTTNVSLYPGYNFRYAKYYK ENNVEKRTLIKVFGIRFDILVFGTGGKFDII QLVVYIGSTLSYFGLAAVFIDFLIDTYSS NCCRSHIYPWCKCCQPCVVNEYYYRKKCESIVEPKPTL KYVSFVDESHIRMVNQQLLGRS LQDVKGQEVPRPAMDFTDLSRLPLALHDTPPIPGQPEEIQLLR KEATPRSRDSPVWCQCG SCLPSQLPESHRCLEELCCRKKPGACITTSELFRKLVLSRHVLQFLL LYQEPLLALDVDS TNSRLRHCAYRCYATWRFGSQDMADFAILPSCCRWRIRKEFPKSEGQYSGF KSPY
Host	Human
Theoretical MW (kDa)	68.40000000000001
Reactivity	Human
Form	Lyophilized
Conjugation	Unconjugated
Preparation Method	Mammalian cell (HEK293) expression system
Recommend Usage	ELISA SDS-PAGE
Storage Buffer	Lyophilized from 20 mM Tris-HCl, 150 mM NaCl, pH 8.0 (5% trehalose).
Storage Instruction	Store at -20°C to -80°C for 12 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Enzyme-linked Immunoabsorbent Assay

  ELISA plates were pre-coated with Flag Tag P2RX7-Nanodisc (0.2 ug/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before ELISA reading. From above data, the EC_{50} for anti-Flag monoclonal antibody binding with P2RX7-Nanodisc is 5.349 ng/mL.

- SDS-PAGE

  Human P2RX7-Nanodisc, Flag Tag on SDS-PAGE.

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Gene Info — P2RX7

Entrez GeneID	5027
Protein Accession#	Q99572
Gene Name	P2RX7
Gene Alias	MGC20089, P2X7
Gene Description	purinergic receptor P2X, ligand-gated ion channel, 7
Omim ID	151400 602566
Gene Ontology	Hyperlink
Gene Summary	The product of this gene belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel and is responsible for ATP-dependent lysis of macrophages through t he formation of membrane pores permeable to large molecules. Activation of this nuclear recepto r by ATP in the cytoplasm may be a mechanism by which cellular activity can be coupled to chang es in gene expression. Multiple alternatively spliced variants which would encode different isoform s have been identified although some fit nonsense-mediated decay (NMD) criteria. [provided by RefSeq
Other Designations	ATP receptor|P2X purinoceptor 7|P2X7 receptor|P2Z receptor|purinergic receptor P2X7

Pathway

- Calcium signaling pathway
- Neuroactive ligand-receptor interaction

Disease

- Agoraphobia
- Anemia
- Anxiety Disorders
- Arthritis
- Bacteremia

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- Bipolar Disorder
- Carcinoma
- Cardiovascular Diseases
- Chromosome Aberrations
- Crohn Disease
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Edema
- Femoral Neck Fractures
- Fractures
- Genetic Predisposition to Disease
- Goiter
- Hematologic Neoplasms
- Hip Fractures
- Hyperparathyroidism
- Hypertension
- Leukemia
- Lung Neoplasms
- Lupus Erythematosus
- Multiple Myeloma
- Osteolysis
- Osteoporosis
- Panic Disorder

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- Phobic Disorders
- Postoperative Complications
- Prosthesis Failure
- Pulmonary Disease
- Recurrence
- Schizophrenia
- Sleep Disorders
- Thyroid Neoplasms
- Tobacco Use Disorder
- Tuberculosis
- Urinary Bladder Neoplasms
- Werner syndrome

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