

PRODUCT INFORMATION

Tag C-Flag Tag ADORA2A **Target**

Synonyms A2aR; ADORA2; RDC8

Human ADORA2A full length protein-synthetic **Description**

nanodisc **Delivery** In Stock **Uniprot ID** P29274 **Expression Host HEK293 GPCR Protein Families**

Formulation & Reconstitution

Storage & Shipping

Background

Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle **Protein Pathways**

contraction

The human full length ADORA2A protein has a **Molecular Weight**

MW of 44.7 kDa Lyophilized from nanodisc solubilization buffer (20

mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis

for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

temperature.

A member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily, which is subdivided into classes and subtypes. The receptors are seven-pass

transmembrane proteins that respond to extracellular cues and activate intracellular signal

transduction pathways. This protein, an adenosine receptor of A2A subtype, uses adenosine as the preferred endogenous agonist and preferentially interacts with the G(s) and G(olf) family of G proteins to increase intracellular cAMP levels. It plays an important role in many

biological functions, such as cardiac rhythm and circulation, cerebral and renal blood flow, immune function, pain regulation, and sleep. It has been implicated in pathophysiological conditions such as inflammatory diseases and neurodegenerative disorders. Alternative splicing results in multiple transcript variants. A read-through transcript composed of the upstream SPECC1L (sperm antigen with calponin homology and coiled-coil domains 1-like) and ADORA2A (adenosine A2a

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receptor) gene sequence has been identified, but it is thought to be non-coding.

Usage Research use only Conjugate Unconjugated

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ELISA assay to evaluate ADORA2A-Nanodisc 0.2μg Human ADORA2A-Nanodisc per well

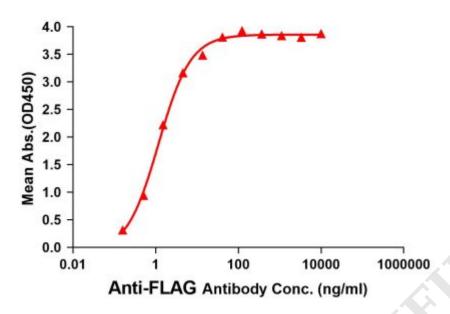


Figure 1. Elisa plates were pre-coated with Flag Tag AODRA2A-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with ADORA2A-Nanodisc is 1.181 ng/ml.

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Figure 2. Human ADORA 2A-Nanodisc, Flag Tag on SDS-PAGE

