

PRODUCT INFORMATION

C-Flag Tag Tag ADRA2A **Target**

Synonyms ADRA2; ADRA2R; ADRAR; ALPHA2AAR; ZNF32 Human ADRA2A full length protein-synthetic Description

nanodisc **Delivery** In Stock **Uniprot ID** P08913 **Expression Host HEK293**

Druggable Genome, GPCR, Transmembrane **Protein Families**

Protein Pathways Neuroactive ligand-receptor interaction

The human full length ADRA2A protein has a MW **Molecular Weight**

of 50.6 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 Formulation & Reconstitution lyophilization. Please see Certificate of Analysis

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). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. The alpha-2-adrenergic receptors are a type of adrenergic receptors (for adrenaline or epinephrine), which inhibit adenylate cyclase. These receptors include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C. They are involved in regulating the release of neurotransmitter molecules from sympathetic

nerves and from adrenergic neurons in the central nervous system. The sympathetic nervous system regulates cardiovascular function by

activating adrenergic receptors in the heart, blood vessels and kidney. Studies in mouse revealed that both the alpha2A and alpha2C receptor subtypes were required for presynaptic transmitter release from the sympathetic nervous

system in the heart and from central

noradrenergic neurons. The alpha-2-adrenergic receptors are also involved in catecholamine signaling by extracellular regulated protein kinase 1 and 2 (ERK1/2) pathways. A clear association between the alpha-2-adrenergic receptor and

disease has not been yet established.

Usage Research use only Conjugate Unconjugated

Background



Email: info@dimabio.com Website: www.dimabio.com





ELISA assay to evaluate ADRA2A-Nanodisc 0.2µg Human ADRA2A-Nanodisc per well

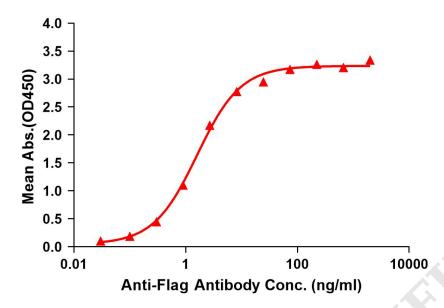


Figure 1. Elisa plates were pre-coated with Flag Tag ADRA2A-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with ADRA2A-Nanodisc is 1.604 ng/ml.

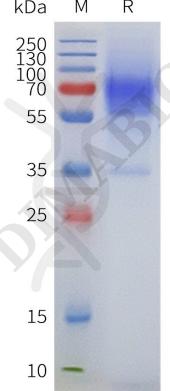


Figure 2. Human ADRA2A-Nanodisc, Flag Tag on SDS-PAGE

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