

PRODUCT INFORMATION

C-Flag Tag Tag **Target** OR3A1

Synonyms OLFRA03; OR17-40; OR17-82; OR40

Human OR3A1 full length protein-synthetic **Description**

nanodisc **Delivery** In Stock **Uniprot ID** P47881 **Expression Host HEK293**

Protein Families Druggable Genome, Transmembrane

Protein Pathways Olfactory transduction

The human full length OR3A1 protein has a MW of **Molecular Weight**

34.6 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.

Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and

hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor

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genes and proteins for this organism is

independent of other organisms.

Usage Research use only Conjugate Unconjugated

Background





ELISA assay to evaluate OR3A1-Nanodisc 0.2µg Human OR3A1-Nanodisc per well

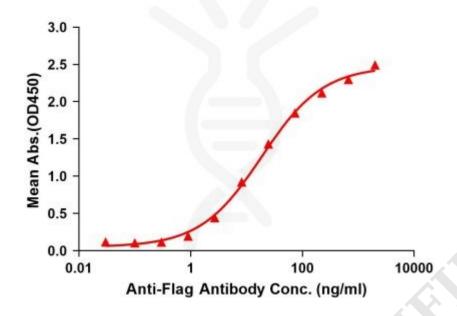
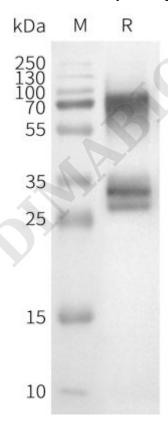


Figure 1. Elisa plates were pre-coated with Flag Tag OR3A1-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with OR3A1-Nanodisc is 18.77 ng/ml.



 $Figure 2. \ WB \ analysis \ of \ Human \ OR 3A1-Nanodisc \ with \ anti-Flag \ monoclonal \ antibody \ at \ 1/5000 \ dilution, \ followed \ by \ Goat \ Anti-Rabbit \ IgG \ HRP \ at \ 1/5000 \ dilution$

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