Background



PRODUCT INFORMATION

C-Flag Tag Tag **Target** OR2B3

Synonyms 6M1-1; OR2B3P; OR6-4; OR6-14

Human OR2B3 full length protein-synthetic Description

nanodisc **Delivery** In Stock **Uniprot ID** 076000 **Expression Host HEK293**

Protein Families Transmembrane

Protein Pathways Olfactory transduction

The human full length OR2B3 protein has a MW of **Molecular Weight**

35.5 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 for specific instructions of reconstitution. 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

genes and proteins for this organism is independent of other organisms.

Usage Research use only Conjugate Unconjugated

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





ELISA assay to evaluate OR2B3-Nanodisc 0.2µg Human OR2B3-Nanodisc per well

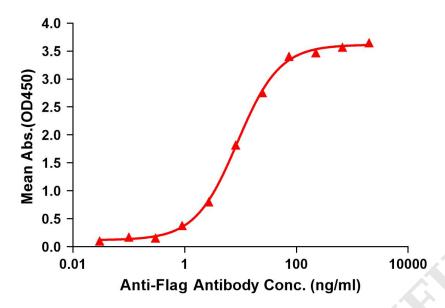


Figure 1. Elisa plates were pre-coated with Flag Tag OR2B3-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with OR2B3-Nanodisc is 8.804ng/ml.

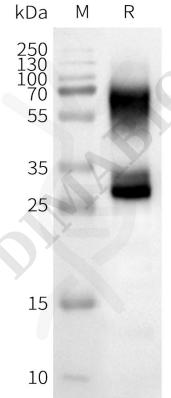


Figure 2. WB analysis of Human OR2B3-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution



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