



# Anti-OR2A42 (aa 35-94) polyclonal antibody (DPAB-DC1868)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| <b>Antigen Description</b> | 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. |
| <b>Immunogen</b>           | OR2A42 (NP_001001802, 35 a.a. ~ 94 a.a) partial recombinant protein with GST tag. The sequence is<br>NGAILGLISLDSRLHTPMYFFLSHLAVVDIAYTRNTVPQMLANLLHPAKPISFAGCMTQT   |
| <b>Source/Host</b>         | Mouse   |
| <b>Species Reactivity</b>  | Human   |
| <b>Conjugate</b>           | Unconjugated  |
| <b>Applications</b>        | WB (Recombinant protein), ELISA,  |
| <b>Size</b>                | 50 µl   |
| <b>Buffer</b>              | 50 % glycerol   |
| <b>Preservative</b>        | None  |
| <b>Storage</b>             | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.  |

## GENE INFORMATION

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| <b>Gene Name</b>           | <a href="#">OR2A42 olfactory receptor, family 2, subfamily A, member 42 [ Homo sapiens (human) ]</a>   |
| <b>Official Symbol</b>     | OR2A42   |
| <b>Synonyms</b>            | OR2A42; olfactory receptor, family 2, subfamily A, member 42; olfactory receptor 2A1/2A42; olfactory receptor OR7-16; olfactory receptor OR7-19; |
| <b>Entrez Gene ID</b>      | <a href="#">402317</a>   |
| <b>Protein Refseq</b>      | <a href="#">NP_001001802</a>   |
| <b>UniProt ID</b>          | <a href="#">Q8NGT9</a>   |
| <b>Chromosome Location</b> | 7q35   |
| <b>Pathway</b>             | GPCR downstream signaling; Olfactory transduction; Signal Transduction.  |
| <b>Function</b>            | G-protein coupled receptor activity; olfactory receptor activity;  |

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