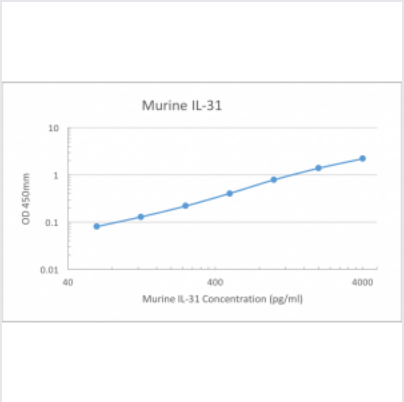
# Il-31 ELISA Kit for Murine

## PRODUCT OVERVIEW

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| **Product Name** | IL-31, ELISA Kit |
| **Full Product Name** | Murine IL-3Pre-Coated ELISA Kit |
| **Product Gene Name** | IL-31 elisa kit |
| **Species Reactivity** | Murine |
| **Assay Type** | Solid Phase Sandwich ELISA: 96-Well Strip Plate |
| **Detection Range** | 62.5pg/ml-4000pg/ml |
| **Sensitivity** | <10pg/ml |
| **Specificity** | Natural and recombinant Murine IL-31 Pre-Coated ELISA Kit |
| **Preparation and Storage** | Store the unopened product at 2-8 degree C. |
| **Molecular Weight** | 18,120 Da |
| **3D Structure** | ModBase 3D Structure for Q6EAL8 |
| **Components** | Anti-Murine IL-31 Pre-coated 96-well strip microplate<br>Murine IL-31 Standard<br>Murine IL-31 Biotinylated antibody (100x)<br>Avidin-Biotin-Peroxidase Complex (100x)<br>Sample Diluent<br>Antibody Diluent<br>Avidin-Biotin-Peroxidase Diluent<br>Wash Buffer Concentrate (Powder for 1000mL)<br>Color Developing Reagent<br>Stop Solution<br>Plate Sealers |
| **Interference** | No detectable cross-reactivity with other relevant proteins |
| **Related Product Information for IL-31 elisa kit** | IL-31 is a T cell-derived cytokine that shares several structural and functional characteristics with IL-6, Oncostatin M, LIF, and Cardiotrophin-1. It signals through a receptor complex comprised of GPL (also known as gp130-like receptor or IL-31RA) and Oncostatin-M receptor (OSMR). GPL/OSMR signaling is a strong activator of STAT3 and STAT5, and can also activate STAT1, JAK1, and JAK2 signaling pathways. IL-31-regulated immune responses have been implicated in skin physiology and inflammatory skin diseases.<br>Murine IL-31 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure IL-31 with a 96-well strip plate that is pre-coated with mouse monoclonal antibody specific for IL-31. It contains E Coli-expressed recombinant IL-31. The detection antibody is a biotinylated goat polyclonal antibody specific for IL-31. The kit is analytically validated with ready to use reagents. |
| **Other Notes** | Small volumes of IL-31 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for IL-31 purchase** | MBS697412 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the IL-31, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing IL-31. The ELISA analytical biochemical technique of the MBS697412 kit is based on IL-31 antibody-IL-31 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL-31 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL-31. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |




**Typical Testing Data/Standard Curve (for reference only) of IL-31 elisa kit**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-31. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 247301073 |
| **NCBI GeneID** | 76399 |
| **NCBI Accession #** | NP_083870.1 |
| **UniProt Primary Accession #** | Q6EAL8 |
| **UniProt Related Accession #** | Q6EAL8 |
| **GenBank Nucleotide #** | NM_029594.1 |
| **NCBI Official Full Name** | interleukin-31 |
| **NCBI Official Synonym Full Names** | interleukin 31 |
| **NCBI Official Symbol** | Il31 |
| **NCBI Official Synonym Symbols** | 1700013B14Rik |
| **UniProt Protein Name** | Interleukin-31 |
| **UniProt Gene Name** | Il31 |
| **UniProt Synonym Gene Names** | IL-31 |
| **UniProt Entry Name** | IL31_MOUSE |
| **NCBI Protein Information** | interleukin-31; IL-31 |
| **UniProt Comments for IL-31** | IL31: Activates STAT3 and possibly STAT1 and STAT5 through the IL31 heterodimeric receptor composed of IL31RA and OSMR. IL31 may function in skin immunity<br><br>Protein type: Secreted; Secreted, signal peptide; Cytokine<br><br>Cellular Component: extracellular space; extracellular region<br><br>Molecular Function: cytokine activity<br><br>Biological Process: immune system process |
| **Research Articles on IL-31** | **1.** Data not only illustrate various functions that cysteines perform during IL-31 biosynthesis and secretion, but also highlight their potential roles in cytokine effector functions. |

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| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

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