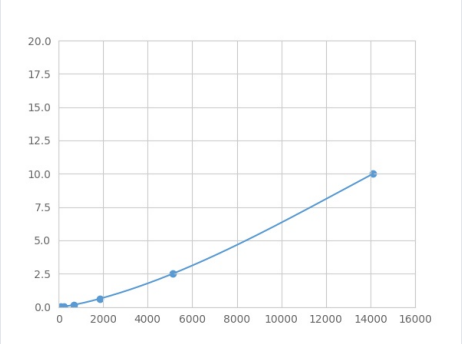
# Immediate Early Response 3 (IER3) Assay Kit for Human

## PRODUCT OVERVIEW

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| **Product Name** | Immediate Early Response 3 (IER3), Assay Kit |
| **Full Product Name** | Immediate Early Response 3 (IER3) Magnetic Fluorescence Assay Kit |
| **Product Gene Name** | IER3 assay kit |
| **Product Synonym Names** | PRG1; DIF-2; DIF2; GLY96; IEX-1; IEX-1L; IEX1; Radiation-inducible immediate-early gene IEX-1; Differentiation-dependent gene 2 protein; PACAP-responsive gene 1 protein; Immediate Early Response 3 |
| **Species Reactivity** | Human |
| **Assay Type** | Double-antibody Sandwich |
| **Samples** | Tissue homogenates, cell lysates and other biological fluids. |
| **Detection Range** | 0.01-10ng/mL |
| **Sensitivity** | The minimum detectable dose of this kit is typically less than 0.003 ng/mL |
| **Specificity** | This assay has high sensitivity and excellent specificity for detection of Immediate Early Response 3 (IER3), etc. No significant cross-reactivity or interference between Immediate Early Response 3 (IER3), etc. and analogues was observed. |
| **Preparation and Storage** | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |
| **Supply Chain Verification** | Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire. |
| **Precision** | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Immediate Early Response 3 (IER3), etc. were tested 20 times on one plate, respectively.<br>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Immediate Early Response 3 (IER3), etc. were tested on 3 different plates, 8 replicates in each plate.<br>CV(%) = SD/meanX100<br>Intra-Assay: CV<10%<br>Inter-Assay: CV<12% |
| **Research Area** | Metabolic pathway |
| **Assay Procedure Summary** | 1. Preparation of standards, reagents and samples before the experiment<br>2. Add 100uL standard or sample to each well,<br>add 10uL magnetic beads, and incubate 90min at 37 degree C on shaker<br>3. Remove liquid on magnetic frame, add 100uL prepared Detection Reagent A. Incubate 60min at 37 degree C on shaker<br>4. Wash plate on magnetic frame for three times<br>5. Add 100uL prepared Detection Reagent B, and incubate 30 min at 37 degree C on shaker<br>6. Wash plate on magnetic frame for three times<br>7. Add 100uL sheath solution, swirl for 2 minutes, read on the machine. |
| **Test Principle** | Analyte-specific antibodies are pre-coated onto color-coded microparticles. Microparticles, standards, and samples are pipetted into wells and the immobilized antibodies bind the analytes of interest. After washing away any unbound substances, a biotinylated antibody cocktail specific to the analytes of interest is added to each well. Following a wash to remove any unbound biotinylated antibody, Streptavidin-Phycoerythrin conjugate (Streptavidin-PE), which binds to the biotinylated detection antibodies, is added to each well. A final wash removes unbound Streptavidin-PE and the microparticles are resuspended in buffer and read using fluorescent spectrum analyzer.The MFI developed isproportional to the concentration of analytes of interest in the sample. |

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| **ISO Certification** | Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory. |
| **Application Notes for IER3 assay kit** | Magnetic Fluorescence Assay for Antigen Detection. |
| **Related Product Information for IER3 assay kit** | MBS2160409 is an assay kit targeting IER3. Also known as Immediate Early Response 3 (IER3) Magnetic Fluorescence Assay Kit. Reactive in Human. |
| **Other Notes** | Small volumes of IER3 assay 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. |




**Typical Testing Data/Standard Curve (for reference only) of IER3 assay kit**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IER3. It may not necessarily be applicable to this product.

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| **Protein Family** | Radiation-inducible immediate-early gene |
| **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. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

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