High Sensitivity ELISA for Human Interferon-Beta

VeriKine-HSTM Human Interferon-Beta Serum ELISA Kit
(Product No. 41415-1)

Product Features:

- Accurately measures IFN-β in human serum, plasma, autoimmune disease sera, and cell culture supernatant
- Detects IFN-β level to as low as 2.5 pg/ml
- High signal-to-noise ratio with minimal interference from serum heterophilic antibodies
- Excellent % CV (<8%) to ensure data reproducibility

Interferon-Beta (IFN-β) is a tightly regulated, early response cytokine primarily responsible for controlling viral infection. Conversely, IFN-β aberrant expression may be associated with inflammation and autoimmunity. More sensitive assays are needed to investigate the physiological relevance of low levels of IFN-β that may be present before viral infection or autoimmunity is observable. A constant challenge in interferon immunoassays is to consistently quantify the amount of IFN-β presence in serum or plasma without interference by heterophilic antibodies, clotting factors and/or serum proteins.

The Verikine-HSTM Human Interferon-Beta Serum ELISA kit by PBL InterferonSource is designed to provide researchers the ability to accurately measure low level of human IFN-β in human serum or plasma samples.

Figure 1
In a side by side comparison with a competitor's product [red], PBL's VeriKine-HSTM Human IFN-β Serum ELISA kit [blue] displays superior sensitivity.

Figure 2
Interferon spike-recovery tests with six serum samples where known amount of IFN-β was added to the sera. Columns in orange represent the average results from another manufacturer’s kit minus one false positive. Average results from PBL’s VeriKine-HSTM Human IFN-β Serum kit [green] demonstrated a superior dose response than the other kit.
Human Interferon-Beta ELISA

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<td>VeriKine-HSTM Human Interferon-Beta Serum ELISA kit</td>
<td>1 x 96-well plate</td>
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Kit specifications

- Assay range: 2.5-150 pg/ml
- Format: 96-well strip plate
- Sample volume: 50 µl per well
- Detection: colorimetric
- Assay time: 3 hrs
- Compatibility: serum, plasma, and cell culture supernatant
- Specificity: human IFN-β. Does no cross-react with human IFN-α, IFN-γ, IFN-ω, IL-6; No cross reactivity with mouse IFN-α, IFN-β or rat IFN-β

Kit components:

- Precoated 96-well strip plate
- Plate sealer
- Recombinant human IFN-β standard
- Wash solution concentrate
- Standard diluent
- Sample buffer
- Antibody concentrate
- HRP conjugate concentrate
- Assay diluent
- TMB substrate solution
- Stop solution

PBL InterferonSource also offers Custom Assay Development and Services to meet your unique project needs. For more information on PBL’s custom services, please contact us at: assayservices@interferonsource.com

To place an order by phone/fax:
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