Human IL11/Interleukin-11 ELISA Kit

E45K00049

Catalog Number:E45K00049

Species Reactivity: Human

Storage: Store at +4°C. Please refer to protocols.

Cite ID#:EN5520500

Type: Human ELISA Kits

Description: Human IL11/Interleukin-11 ELISA Kit is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit designed for the quantitative measurement of IL11 in biological samples. Our rigorously validated, ready-to-go Human IL11/Interleukin-11 ELISA Kit use a simple protocol that easily integrates into your current processes, allowing you to rapidly and accurately detect IL11 in your samples. Appropriate sample types may include Cell Culture Supernates, Serum, Platelet-poor EDTA Plasma, Platelet-poor Heparin Plasma, Urine. Precision Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested several times on one plate to assess intra-assay precision. Inter-Assay Precision (Precision between assays): Three samples of known concentration were tested in several separate assays to assess inter-assay precision. Assays were performed by at least two technicians using two lots of components.

Assay type: Sandwich

Detection principle: Spectrophotometrical

Sample type: This immunoassay kit allows for the in vitro quantitative determination in Serum, plasma, tissue homogenates, cell culture supernates and other biological fluids.

Sensitivity:3.9 pg/mL

Assay range:15.6-1000 pg/mL

Kit components: Assay Plate, Standard, Sample Diluent, Assay Diluent A&B, Detection Reagent A&B, Wash Buffer, Substrate, Stop Solution.

Other reagents required: Deionized or distilled water

Gene Name:IL11

Swiss-Prot No.:P20809

Function: Cytokine that stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells and

For Research Use Only

induces megakaryocyte maturation resulting in increased platelet production (PubMed:2145578). Also promotes the proliferation of hepatocytes in response to liver damage. Binding to its receptor formed by IL6ST and either IL11RA1 or IL11RA2 activates a signaling cascade that promotes cell proliferation (PubMed:12919066). Signaling leads to the activation of intracellular protein kinases and the phosphorylation of STAT3.

Form:ELISA Kits

Synonyms:IL-11,Adipogenesis inhibitory factor,AGIF