Epstein-Barr Virus (EBV) ELISpot Human IFN-γ Kit

Product Details

Application

The EBV Human IFN-γ Enzyme-Linked ImmunoSpot (ELISpot) kit is a highly sensitive method used to detect and quantify individual cells that secrete IFN-γ after stimulation with the ImmuneSelect EBV Peptide Pool. This assay is utilized in immunology to monitor cellular immune responses at the single-cell level and reliably detects and measures human IFN-γ secretion by EBV stimulated effector cells.

Description

Epstein-Barr Virus (EBV), also known as human herpesvirus 4 (HHV-4), is a ubiquitous herpesvirus that infects around 90% of the human population. While primary EBV infection is often asymptomatic or presents as infectious mononucleosis, the reactivated virus is also associated with several malignancies, including Burkitt's lymphoma, Hodgkin's lymphoma, and nasopharyngeal carcinoma. Recent studies also suggest that EBV infection may also cause multiple sclerosis. Accurate diagnosis of EBV is important for identifying and managing both acute infections and EBV-associated malignancies, particularly for immunocompromised individuals who are likely to develop symptoms if EBV reactivates.

Early detection of EBV-related diseases can guide therapeutic decisions and improve clinical outcomes for cohorts who are at higher risk for severe disease. Research indicates that individuals with strong EBV-specific T cell responses are less likely to develop severe complications, emphasizing the importance of immune monitoring in EBV infections.

Product Specifications

Product	ViraxImmune EBV ELISpot Human IFN-γ kit
Application	ELISpot
Analyte	IFN-γ
Reactivity	Human
Specificity	Human IFN-γ.
Storage	Store plates and reagents between 2 and 8°C. Peptide pool vial must be stored at -20 °C or below.
Shelf life	18 months from date of receipt.

Kit content

Peptide pools	ImmuneSelect Human EBV (44 peptides from Human herpesvirus 4 (Epstein Barr virus))
Plate	ELISpot plate precoated with IFN-γ capture antibody

Detection mAb	Biotinylated recombinant IFN-γ antibody
Enzyme conjugate	Streptavidin-ALP (Alkaline Phosphatase)
Substrate	BCIP/NBT Ready-to-use solution
Blocking agent	Bovine Serum Albumin (BSA)