Monitoring of Immune Response to Influenza Infection using MHC Tetramers

Influenza, often referred to as "the flu", is one of the most common respiratory infections in humans. Influenza rapidly spreads around the world in seasonal epidemics and imposes a considerable economic burden in the form of health care and hospitalization costs.

Influenza viruses are grouped into 3 major types (A, B, and C), and strains are further divided into multiple subtypes based on the virus surface proteins hemagglutinin and neuraminidase. Investigating immune responses to influenza virus infection among the different subtypes is important for the development of more effective influenza vaccines.

To investigate the immune response to influenza viral infection, MBLI offers MHC Tetramers for detection of T cells specific to common viral influenza antigens. These include antigens such as HA, NP, NS2, PB1. Through the use of MHC Tetramers, the effectiveness of a vaccine candidate in eliciting an immune response for an influenza antigen can be assessed.

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Product Code	Product Description
TB-0012-1	iTAg Tetramer/PE - HLA-A*02:01 Influenza-M1 (GILGFVFTL)
TB-0103-1	Tetramer/PE - HLA-A*03:01 Influenza Virus NP (265-274) (ILRGSVAHK)
TB-0111-2	Tetramer/APC - HLA-B*27:05 NP(383-391) (SRYWAIRTR)
TB-0165-2	HLA-A*02:01 Influenza M1 Tetramer-ILGFVFTLTV-APC
TB-M046-4	HLA-B*35:01 Influenza NP Tetramer-LPFEKSTVM-BV421
TB-M528-4	H-2Db Influenza PA Tetramer-SSLEN-FRAYV-BV421
TB-M804-M	Biotinylated HLA-DRB1*01:01 Influenza HA 306-318 Monomer-PKYVKQNTLKLAT 50ug
TB-M810-M	Biotinylated HLA-DRB1*04:01 Influenza HA 306-318 Monomer-PKYVKQNTLKLAT 50ug
TS-045-1	HLA-A*01:01 Influenza NP Tetramer-CTELKLSDY-PE
TS-M535-1	H-2Kd Influenza HA Tetramer-LYQNVGTYV-PE