

**NKT CELLS ARE OF EMERGING IMPORTANCE AS BIOMARKERS AND AS THERAPEUTIC TARGETS IN MANY DIFFERENT HUMAN DISEASES**

## NKT CELLS – BIOMARKERS OF HEALTH OR DISEASE?

### **DETECTION OF NKT CELLS**

The number and function of human NKT cells play an important role in regulating the immune response in many autoimmune diseases, cancer, graft-versus-host disease, inflammation and in various infectious diseases.

### **NKT CELLS CAN BE ACCURATELY MONITORED**

Immudex provides CD1d Dextramer reagents for quantification of NKT cells in blood and PBMCs by flow cytometry.

■ See our NKT cell-specific reagents  
[www.immudex.com](http://www.immudex.com)

# NKT CELL-SPECIFIC PRODUCTS

Immudex offers CD1d Dextramers for accurate detection of NKT cells.

## CD1d/ $\alpha$ -GalCer DEXTRAMER

[Cat. no. XD8002]

- Staining reagent for monitoring NKT cells.
- The CD1d/ $\alpha$ -GalCer Dextramer reagent displays human CD1d loaded with  $\alpha$ -GalCer.

## CD1d/UNLOADED DEXTRAMER

[Cat. no. XD8001]

- Staining reagent for monitoring NKT cells.
- The CD1d/unloaded Dextramer reagent displays human CD1d with no lipid antigen loaded.
- Load your lipid antigen of interest to generate a unique CD1d/lipid Dextramer.
- Can be used as negative control reagent.

Available with FITC, PE, and APC.

## REFERENCES

Nat Rev Immunol. 2013 Feb;13[2]:101-17. Invariant natural killer T cells: an innate activation scheme linked to diverse effector functions. Brennan PJ, Brigi M, Brenner MB.

Nat Rev Immunol. 2011 Feb;11[2]:131-42. Presumed guilty: natural killer T cell defects and human disease. Berzins SP, Smyth MJ, Baxter AG.

Front Biosci [Schol Ed]. 2011 Jan 1;3:236-51. Natural killer T cells in health and disease. Wu L, Van Kaer L.

Trends Mol Med. 2011 Feb;17[2]:65-77. NKT cell costimulation: experimental progress and therapeutic promise. van den Heuvel MJ, Garg N, Van Kaer L, Haeryfar SM.

J Clin Invest. Nov 1, 2012; 122[11]: 3943-3954. Scavenger receptors target glycolipids for natural killer T cell activation. Stefan Freigang, Elise Landais, Victoria Zadorozhny, Lisa Kain, Kenji Yoshida, Yang Liu, Shenglou Deng, Wulf Palinski, Paul B. Savage, Albert Bendelac, and Luc Teyton.