



# Human CD134/OX40 Assay Kit

Factors involved in activated T cells and T cell proliferation / invasion

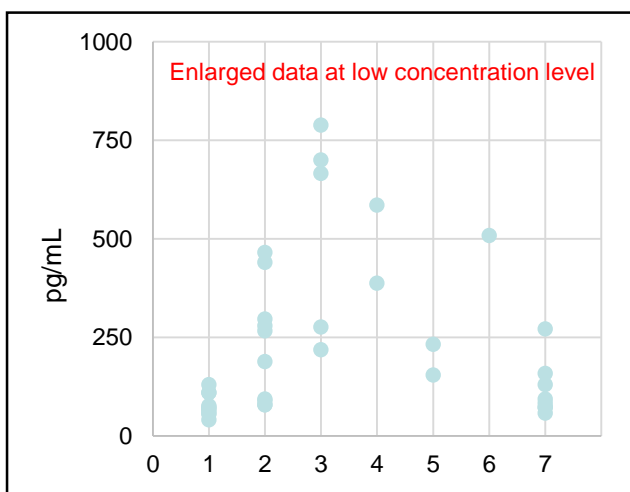
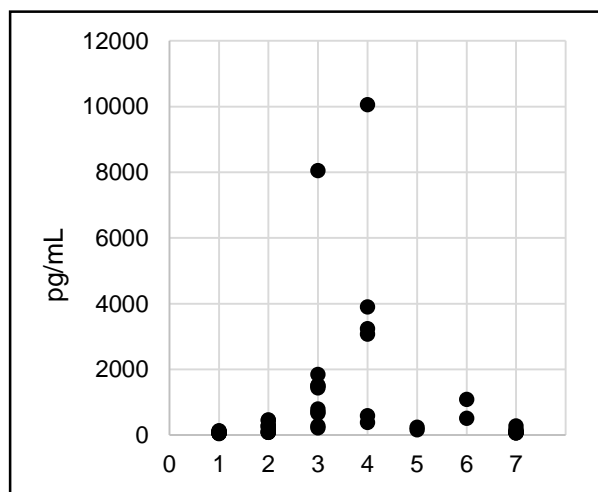
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CD134/OX40 is a receptor of OX40 ligand (OX40L) transactivated by Tax of HTLV-1. OX40 is expressed in activated CD4+ and CD8+ T cells. OX40 on the activated T cells have a role in proliferation of T cells and production of cytokines by binding with OX40L expressed on antigen presenting cells like dendritic cells or activated B cells. In addition, it also be involved in activated T cell invasion to inflamed area through the binding with OX40L.

It has been observed that soluble CD134 / OX40 in plasma is significantly higher in acute adult T-cell leukemia patients compare to HTLV-1 carriers and healthy individual in recent study. It has also been reported that HTLV-1 gene (number of the copy) in peripheral blood lymphocytes was correlated with soluble OX40 level in plasma of HTLV-1 infected patients. (See reference below)

| Product Code | Product Name                     | Size    | Measurement Range  | Sample Type | Measuring Samples |             |       |                |                          |
|--------------|----------------------------------|---------|--------------------|-------------|-------------------|-------------|-------|----------------|--------------------------|
|              |                                  |         |                    |             | Serum             | EDTA-plasma | Urine | Tissue extract | Cell Culture supernatant |
| 27110        | Human CD134/OX40 Assay Kit - IBL | 96 well | 15.6 - 1,000 pg/mL | Human       | ○                 | ○           | /     | /              | ○                        |

## ■ Example of clinical specimen measurement



1. Healthy Individual   2. Asymptomatic HTLV-I carrier   3. Acute ATL   4. Lymph node type ATL   5. Smoldering ATL  
6. Chronic type ATL   7. HAM

Data was kindly provided by Professor Yuetsu Tanaka, Department of Immunology, Graduate School and Faculty of Medicine, University of the Ryukyus, Japan.

### 【Reference】

Tanaka Y, Takahashi Y, Tanaka R, Miyagi T, Saito M, Fukushima T. Association of high levels of plasma OX40 with acute adult T-cell leukemia. *Int J Hematol.* 2019 Jan 16.

**RUO**

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