## DESCRIPTION

**Species Reactivity**  
Human

**Specificity**  
Detects human OX40 Ligand in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) APRIL, rhBAFF, rhCD27 Ligand, recombinant mouse (rm) CD27 Ligand, rhCD30 Ligand, rhCD40 Ligand, rmEDA, rhFas Ligand, rmFas Ligand, rhGITR Ligand, recombinant cotton rat TNF-α, rhTNF-α, rmTNF-α, recombinant porcine TNF-α, recombinant rat TNF-α, rhTRAIL, rhTRANCE, rmTRANCE, or rhVEGF is observed.

**Source**  
Monoclonal Mouse IgG 
Catalog Number: FAB10541P

**Purification**  
Protein A or G purified from hybridoma culture supernatant

**Immunogen**  
Mouse myeloma cell line NS0-derived recombinant human OX40 Ligand  
Accession # P23510

**Conjugate**  
Phycoerythrin  
Excitation Wavelength: 488 nm  
Emission Wavelength: 565-605 nm

**Formulation**  
Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. **General Protocols** are available in the Technical Information section on our website.

### Flow Cytometry

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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<tr>
<td>10 µL/10^6 cells</td>
<td>See Below</td>
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## DATA

**Flow Cytometry**

Detection of OX40 Ligand/TNFSF4 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) treated with Recombinant Human GM-CSF (Catalog # 215-GM) and LPS for 48 hours were stained with Mouse Anti-Human OX40 Ligand/TNFSF4 PE-conjugated Monoclonal Antibody (Catalog # FAB10541P, filled histogram) or isotype control antibody (Catalog # IC002P, open histogram). View our protocol for Staining Membrane-associated Proteins.

## PREPARATION AND STORAGE

**Shipping**  
The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage**  
Protect from light. Do not freeze.  
- 12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

OX40 Ligand (OX40L), also known as gp34, is a type II transmembrane glycoprotein designated TNFSF4 within the TNF superfamily. Human OX40L cDNA encodes a 183 amino acids (aa) polypeptide with an amino-terminal cytoplasmic domain (aa 1-23) and a carboxy-terminal extracellular domain (aa 51-183). It shares 46% aa sequence identity with the mouse counterpart. OX40L is expressed on the surface of activated B cells, T cells, dendritic cells and endothelial cells. Like other TNF superfamily members, membrane-bound OX40 Ligand exists as a homotrimer. OX40L binds to OX40 (CD134), a member of the TNF receptor superfamily that is expressed predominantly on activated CD4⁺ T cells. OX40 Ligand is one of the group of co-stimulatory molecules in the immune system that includes B7, CD40 Ligand, CD30 Ligand, CD27 Ligand and 4-1BB Ligand. OX40 appears as a late activation-induced T cell surface antigen, and its major function of OX40-OX40L interaction may be to transmit a late co-stimulatory signal to promote the survival and proliferation of activated CD4⁺ T cells and prolong the immune response. Engagement of OX40 on activated T cells in situ in tumors has been shown to augment immune responses and subsequent tumor regression.

**References:**