## **R** SYSTEMS a **biotechne** brand

# Human CD30 Ligand/TNFSF8 Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG2A Clone # 116621 Catalog Number: FAB10281N 100 µg

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human CD30 ligand/TNFSF8 in direct ELISAs.		
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 116621		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived human CD30 Ligand/TNFSF8. Gln63-Asp234 Accession # P32971		
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm		
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.		

\*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.				
	Recommended Concentration	Sample		
Flow Cytometry	0.25-1 µg/10 <sup>6</sup> cells	Human peripheral blood mononuclear cells (PBMCs) treated with Cell Activation Cocktail 500x (Catalog # 5476)		

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

CD30 ligand (CD30L)/TNFSF8 is a type II membrane protein belonging to the TNF superfamily. CD30L is expressed on the cell surface of activated T cells, B cells, and monocytes. The protein is also constitutively expressed on granulocytes and medullary thymic epithelial cells. The specific receptor for CD30L is CD30/TNFRSF8, a type I transmembrane glycoprotein belonging to the TNF receptor superfamily. CD30 was originally identified as a cell surface antigen of Hodgkin's and Reed-Sternberg cells using the monoclonal antibody Ki-1. CD30 is also expressed on different non-Hodgkin's lymphomas, virus-infected T and B cells,

and on normal T and B cells after activation. Among T cells, CD30 is preferentially expressed on a subset of T cells producing Th2-type cytokines and on CD4<sup>+</sup>/CD8<sup>+</sup> thymocytes that co-express CD45RO and IL-4 receptor. CD30 ligation by CD30L mediates pleiotropic effects including cell proliferation, activation, differentiation and cell death by apoptosis. CD30 can act as a co-stimulatory molecule in thymic negative selection and may also play a critical role in the pathophysiology of Hodgkin's disease and other CD30<sup>+</sup> lymphomas. Human and mouse CD30 ligand cDNAs share 70% sequence homology.

#### References:

- 1. Brunangelo, F. et al. (1995) Blood 85:1.
- 2. Duckett, C.S. et al. (1997) Mol. Cell. Biol. 17:1535
- 3. Chiarle, R. et al. (1999) J. Immunol. 163:194.

### PRODUCT SPECIFIC NOTICES

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