Human CD30 Ligand/TNFSF8 Antibody

Monoclonal Mouse IgG_{2A} Clone # 116621

Catalog Number: MAB10281

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD30 ligand/TNFSF8 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2A} 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
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

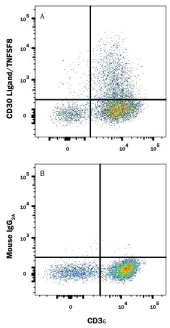
APPLICATIONS

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 µg/10^6 cells	See Below
Immunohistochemistry	5-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

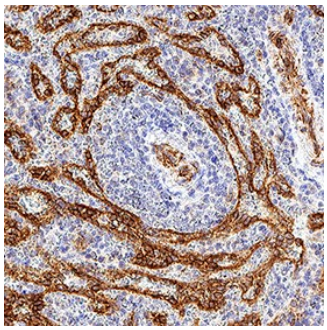
DATA

Flow Cytometry



Detection of CD30 Ligand/TNFSF8 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) treated with Cell Activation Cocktail 500x (Catalog # 5476) overnight were stained with (A) Mouse Anti-Human CD30 Ligand/TNFRSF8 Monoclonal Antibody (Catalog # MAB10281) or (B) Mouse IgG2a isotype control antibody (Catalog # MAB003) followed by Anti-Mouse IgG PE-conjugated Secondary Antibody (Catalog # F0102B) and Mouse anti-Human CD3 APC-conjugated Monoclonal Antibody (Catalog # FAB100A). View our protocol for Staining Membrane-associated Proteins.

Immunohistochemistry



CD30 Ligand/TNFSF8 in Human Spleen. CD30 Ligand/TNFSF8 was detected in immersion fixed paraffin-embedded sections of human spleen using Mouse Anti-Human CD30 Ligand/TNFSF8 Monoclonal Antibody (Catalog # MAB10281) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell surface. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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 $CD4^+/CD8^+$ 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 $CD30^+$ 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.

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