

## APC Human CD30 (TNFRSF8) Protein (C-His)

|                           |                     |
|---------------------------|---------------------|
| <b>Catalog Number:</b>    | 804703, 804704      |
| <b>Size:</b>              | 25 ug, 100 ug       |
| <b>Target Name:</b>       | TNFRSF8, CD30, Ki-1 |
| <b>Regulatory Status:</b> | RUO                 |

### PRODUCT DETAILS

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|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application:</b>           | Flow Cytometry                                                                                                                                                  |
| <b>Format:</b>                | Liquid, APC                                                                                                                                                     |
| <b>Expression Host:</b>       | CHO                                                                                                                                                             |
| <b>Species:</b>               | Human                                                                                                                                                           |
| <b>Sources:</b>               | Recombinant Human CD30 protein (phe19-Lys379) with C-terminus His tag is expressed in CHO cells and conjugated to APC.                                          |
| <b>Accession Number:</b>      | P28908                                                                                                                                                          |
| <b>Molecular Weight:</b>      | The protein has a predicted molecular weight of 40 kDa. Under DTT-reducing conditions, it migrates at approximately 50-80 kDa on SDS-PAGE prior to conjugation. |
| <b>Affinity Tag:</b>          | C-His                                                                                                                                                           |
| <b>Formulation:</b>           | 1xPBS buffer, pH7.4, 0.09% NaN <sub>3</sub> with a carrier protein                                                                                              |
| <b>Endotoxin level:</b>       | Not tested                                                                                                                                                      |
| <b>Protein Concentration:</b> | 25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.                                                           |
| <b>Storage and Handling:</b>  | Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2-8°C for up to six months.                                                         |

### BACKGROUND INFORMATION

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CD30, also known as TNFRSF8, is a 120 kDa type I transmembrane glycoprotein from the TNF receptor superfamily. It is expressed on activated T, B, and NK cells, but not resting cells. CD30 is cleaved by metalloproteinases into a soluble form and is highly expressed in classical Hodgkin lymphoma and anaplastic large cell lymphoma. It interacts with proteins like TRAF1, TRAF2, and TRAF5, activating NF-κB signaling. This signaling regulates the proliferative potential of autoreactive CD8 T cells and protects against autoimmunity. CD30 is a therapeutic target in lymphoma immunotherapy and plays a role in autoimmune diseases like rheumatoid arthritis.