

## Technical Data Sheet

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

**Catalog Number:** 804501, 804502

**Size:** 25 ug, 100 ug

**Target Name:** HER2, HER-2, ERBB2, CD340, neu, MLN19, NEU, NGL, TKR1

**Regulatory Status:** RUO

#### Product Details

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**Application:** ELISA, BLI

**Format:** Liquid, Purified

**Expression Host:** CHO

**Target Name:** HER2, HER-2, ERBB2, CD340, neu, MLN19, NEU, NGL, TKR1

**Species:** Human

**Sources:** Recombinant Human CD30 protein (phe19-Lys379) with C-terminus His-Avi tag is expressed in CHO cells.

**Accession Number:** P28908

**Molecular Weight:** The protein has a predicted molecular weight of 42 kDa. Under DTT-reducing conditions, it migrates at approximately 50-80 kDa on SDS-PAGE.

**Affinity Tag:** C-His-Avi

**Purity:** >95% based on SDS-PAGE under reducing condition

**Regulatory Status:** RUO

**Formulation:** 1xPBS buffer, pH7.4, 0.22  $\mu$ m filtered

**Endotoxin level:** Not tested

**Protein Concentration:** 25 $\mu$ g size is bottled at 0.2mg/mL concentration. 100  $\mu$ g size is supplied at a lot-specific concentration.

**Storage and Handling:** Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22  $\mu$ m-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at  $\leq$  -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

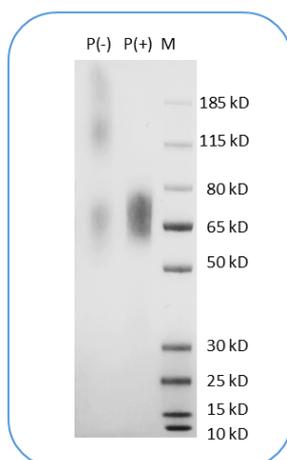
#### Background Information

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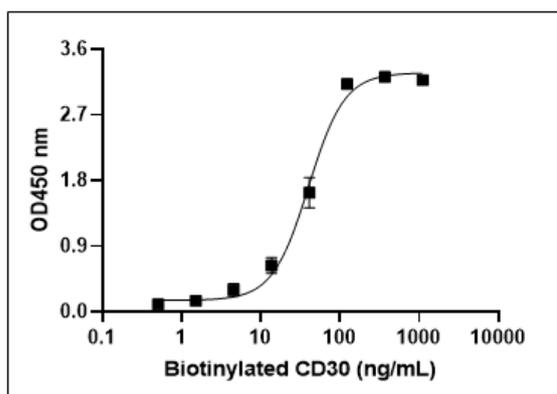
CD30, also known as TNFRSF8, is a 120 kDa type I transmembrane glycoprotein from the TNF receptor superfamily. It is expressed on activated T, B, and NK cells, but not resting cells. CD30 is cleaved by metalloproteinases into a soluble form and is highly expressed in classical Hodgkin lymphoma and anaplastic large cell lymphoma. It interacts with proteins like TRAF1, TRAF2, and TRAF5, activating NF- $\kappa$ B 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.

## Product Data

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Human CD30 protein (C-His-Avi) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95% based on reducing conditions.



Human CD30L (C-His) protein is coated at 1  $\mu\text{g/mL}$  (100ng/well). Biotinylated CD30 (C-His-Avi) can detect the CD30L protein in the dose dependent manner. The ED50 is about 30-100 ng/mL.