

## Anti-CTLA-4 [NB25B-17] Standard Size Ab03235-1.159

**Isotype and Format:** Mouse IgG1-Fc fusion

**Clone Number:** NB25B-17

**Alternative Name(s) of Target:** Cytotoxic T-lymphocyte protein 4; Cytotoxic T-lymphocyte-associated antigen 4; CD152

**UniProt Accession Number of Target Protein:** P16410

**Published Application(s):** FACS, in vivo

**Published Species Reactivity:** Monkey, Human

**Immunogen:** The original antibody was generated by immunizing alpaca with human CTLA-4, followed by antibody library construction and phage display-based selection.

**Specificity:** The antibody is specific for CTLA-4. CTLA-4 is a protein receptor that functions as an immune checkpoint and downregulates immune responses.

**Application Notes:** The binding affinity of humanized VHH-Fc chimeric antibody to human CTLA-4 expressed in CHO cells was shown by FACS experiments. The blocking activity of the humanized VHH-Fc chimeric antibody to the binding of CTLA-4 to CD80 or CD86 was shown using FACS. The antitumor activity of the humanized antibody was demonstrated in vivo in animal models. Specifically, a tumor animal model was established by inoculating mice with human breast cancer cells MDA-MB-231 (ATCC) to induce breast cancer. Mice were grouped and administered with the humanized version of the antibody, and tumor volume in tumor-bearing animals was measured periodically in size. Results showed that the humanized version of the antibody was able to significantly reduce tumor volume in tumor-bearing mice (CN113121689).

**Antibody First Published in:** [PMID:](#)

**Note on publication:**

### Product Form

**Size:** 100 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic

procedures for humans or animals.