

Anti-CTLA-4 [9D9] Bulk Size bAb0166-BT

This antibody is a knob-into-hole bispecific based on murine IgG2a with an Fc Silent™ mutation, featuring one arm with an anti-mouse PD-L1 VHH clone VHH-PD-L1.

This is a bispecific, knob-into-hole heterodimerized antibody, with one arm directed against CTLA4 (Fab) and one arm directed against mouse PDL-1 (VHH).

Isotype and Format: Mouse IgG2a mPD-L1 KIH bispecific, [Fc Silent™](#), Kappa

Clone Number: 9D9

Alternative Name(s) of Target: CD152; CTLA4; Cytotoxic T-Lymphocyte Associated Protein 4; Insulin-Dependent Diabetes Mellitus 12; Celiac Disease 3; Ligand And Transmembrane Spliced Cytotoxic T Lymphocyte Associated Antigen 4; Cytotoxic T Lymphocyte Associated Antigen 4 Short Spliced Fo

UniProt Accession Number of Target Protein: P09793

Published Application(s): Block, IF

Published Species Reactivity: Mouse

Immunogen: The antibody was raised against CTLA-4.

Specificity: The antibody is specific for CTLA-4.

Application Notes: The antibody has been used to block CTLA-4 and has been shown to enhance T-cell immunity against tumours (Quezada et al, 2006). 9D9 also has an anti-B16/BL6 melanoma effect in non-irradiated tumour-bearing recipients when given as combinatorial therapy with Gvax (Peggs et al, 2009). Selby et al. (PMID: 24777248) show how conversion of the original mouse IgG2b to a mouse IgG2a greatly increases anti-tumor activity of the 9D9 antibody in both MC38 (C57BL/6 mice) and CT26 (BALB/c mice) models. This mechanism both involves blockade of CTLA4 as well as depletion of tumor-infiltrating regulatory T-cells. Fc Silent antibodies were shown to have reduced anti-tumor activity as they did not deplete tumor infiltrating regulatory T-cells, however they lead to expansion of peripheral Tregs.

Antibody First Published in: Simpson T et al. Fc-dependent depletion of tumor-infiltrating regulatory T cells co-defines the efficacy of anti-CTLA-4 therapy against melanoma J Exp Med. 2013 Aug 26; 210(9): 1695-1710. [PMID:23897981](#)

Note on publication: Describes the characterisation of the Fcγ receptor-dependent activity of 9D9 on the T reg cell compartment.

Product Form

Size: 500 µg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.