

Anti-CD28 [1C6] Standard Size Ab00472-202.1

This chimeric dog antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Dog IgG4 (IgG-D), Kappa

Clone Number: 1C6

Alternative Name(s) of Target: TP44; Costimulatory molecule B7 receptor CD28; T-cell costimulatory molecule CD28

UniProt Accession Number of Target Protein: Q9N0N8

Published Application(s): Blocking, FA, in vivo, ELISA, FC

Published Species Reactivity: Dog

Immunogen: Canine CD28.

Specificity:

Application Notes: The antibody binds specifically to canine CD28, a self self surface receptor expressed by thymocytes and a subset of natural killer cells. CD28 acts as a receptor for CD80 and CD86, providing a costimulatory signal for the activation of T-cells and the production of interleukins, such as IL-6. The 1C6 monoclonal antibody has antagonistic activity, blocking mixed lymphocyte reactions and cytotoxic T lymphocyte mediated killing. The use of the monoclonal antibody 1C6 for the neutralisation of CD26 signal following T-cell receptor activation is of clinical importance for transplantation therapy, as it has been shown to prevent graft rejection and graft-versus-host disease in the canine model of allogeneic hematopoietic cell transplantation (HCT).

Antibody First Published in: Scott S. Graves, Diane M. Stone, Carol Loretz, Laura J. Peterson, Marina Lesnikova, Billanna Hwang, George E. Georges, Richard Nash and Rainer Storb. Antagonistic and agonistic anti-canine CD28 monoclonal antibodies: tools for allogeneic transplantation. Transplantation. 2011 Apr 27; 91(8): 833-840. [PMID:21343872](#)

Note on publication: Describes the role of CD28 in the activation of T cells via costimulatory signals, and the blockade of this signal using anti-CD28 monoclonal antibodies such as 1C6. Also demonstrates the advantages of using this method in comparison to cytotoxic T lymphocyte antigen 4 (CTLA-4)-Ig fusion protein by in vivo studies in the dog HCT model.

Product Form

Size:

200 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.