

CTLA-4 (ZR452)

Rabbit Monoclonal Antibody

Host: Rabbit
Specificity: Human
Immunogen: Recombinant fragment of human CTLA-4
Ig Class: IgG
Storage: Store at 2-8°C for up to 2 years for concentrate form and 18 months for predilute form.

Specifications: CTLA-4 (ZR452) Rabbit Monoclonal primary antibody detects CTLA-4 protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

Staining procedures: Use formalin-fixed and paraffin-embedded sections. Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended. Detection method: Polymer anti-mouse/rabbit Ig detection system. Working dilution: 1:100-200. Positive Control: sample known to contain CTLA-4 protein.

Localization: Secreted and cell surface.

Intended Use: Research Use Only (RUO). This antibody is not for diagnostic use.

Description: Cytotoxic T lymphocyte-associated antigen-4 (CTLA-4) is a member of the CD28 superfamily and is a negative regulator of T cell-mediated immune responses. CTLA-4 expression is induced on the surface of T cells after CD28 binding and activation. It is constitutively expressed in T-regulatory cells, acting as an immune checkpoint inhibitor and downregulating T-cell activity. CTLA-4 primarily inactivates T-cell activity by competing with the CD28 costimulatory molecule. CD28 and CTLA-4 share the identical ligands of CD80 and CD86 on antigen-presenting cells; thus, CTLA-4 competes with CD28 function in T-cell survival, proliferation, and recruitment. In particular, CTLA-4 down-modulates CD4+ helper T-cell activity and enhances Treg immunosuppressive functions. CTLA-4 has been shown to play a role in human diseases. CTLA-4 acts as a physiological brake on the activated immune system to maintain immune homeostasis. Several suppressive mechanisms for T-cell functions have been attributed to CTLA-4.

Supplied As: Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

References:

1. Oble DA, et al: Am J Surg pathol. 2008; 32:1130-7
2. Chen JH, et al: Am J Surg Pathol. 2017; 41:643-654

REF Z2808RL/ Z2808RS/ Z2808RT/ Z2808RP (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)




605 E. Huntington Dr.,
Suite 204
Monrovia, CA 91016
Tel: (626) 355-2053
<http://www.zeta-corp.com>

RUO
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use only)

LOT
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