



Anti-CTLA4 monoclonal antibody, clone 1B8 (CABT-47114HM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Hamster anti Mouse CD152 antibody, clone 1B8 recognizes mouse CD152, commonly known as CTLA-4 (cytotoxic T-lymphocyte protein 4), a structural homolog for CD28. CD152 binds the same ligands as CD28, namely CD80 (B7.1) and CD86 (B7.2), but with much higher affinity. However, while binding of CD28 enhances T cell function, binding of CD152 inhibits it. CD152 is not detected on naïve T-cells and is induced upon T-cell activation. In mice, lack of CD152 leads to massive lymphoproliferative disorder leading to tissue destruction and autoimmunity, suggesting a critical role for CD152 in limiting T-cell responses. CD152 has been shown to reduce IL-2 production after ligation and can inhibit T-cell expansion. This regulatory role and the high binding affinity of CD152 make it a potential therapy for autoimmune diseases such as rheumatoid arthritis. Hamster anti Mouse CD152 antibody, clone 1B8 may be used to enhance proliferation and pro-inflammatory cytokines of lymph node cells. It may also be used to enhance tumour immunity. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

Specificity	CTLA4
Immunogen	Extracellular portion of mouse CD152 fused to a mouse IgG2a.
Isotype	IgG
Source/Host	Hamster
Species Reactivity	Mouse
Clone	1B8
Conjugate	Unconjugated
Applications	ELISA; FC; IF; IP; WB

Format	Purified IgG - liquid
Size	100 µg
Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Ctla4 cytotoxic T-lymphocyte-associated protein 4 [<i>Mus musculus</i> (house mouse)]
Official Symbol	CTLA4
Synonyms	CTLA4; cytotoxic T-lymphocyte-associated protein 4; Cd152; Ly-56; Ctla-4; cytotoxic T-lymphocyte protein 4; CD152 antigen; cytotoxic T-lymphocyte-associated antigen 4;
Entrez Gene ID	12477
Protein Refseq	NP_001268905
UniProt ID	P09793
Chromosome Location	1 C; 1 30.58 cM
Pathway	Adaptive Immune System; Autoimmune thyroid disease; CTLA4 inhibitory signaling; Cell adhesion molecules (CAMs); Costimulation by the CD28 family; Immune System; Rheumatoid arthritis; T cell receptor signaling pathway;