

Technical Data Sheet

Purified NA/LE Hamster Anti-Mouse CD152

Product Information

Material Number:	555278
Alternate Name:	CTLA-4
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	9H10
Immunogen:	Mouse CTLA-4-human IgG1 fusion protein
Isotype:	Syrian Hamster IgG2, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is ≤ 0.01 EU/ μ g (≤ 0.001 ng/ μ g) of protein as determined by the LAL assay.

Description

The 9H10 antibody reacts with CD152 (CTLA-4), which is expressed on activated T lymphocytes 2-3 days after stimulation through T cell receptor. CTLA-4 has significant similarity to CD28 in amino acid sequence, structure, and genomic organization. Furthermore, CD152 and CD28 share common B7 family counter-receptors. Unlike CD28, CD152 expression at both mRNA and protein level appears to be restricted to activated T cells with a maximal surface expression between 48 and 72 hours post-activation. The regulation of CTLA-4 protein expression is complex and can involve changes in the rate of transit between intracellular stores and the cell surface. Whereas CD28 delivers a co-stimulatory signal required for T-cell activation, CTLA-4 is a negative regulator of cell-mediated immune responses. CD152 may play roles in induction and/or maintenance of immunological tolerance, regulation of protective immunity, and regulation of some aspects of thymocyte maturation. This hamster mAb to a mouse leukocyte antigen does not cross-react with rat leukocytes.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry	Routinely Tested
Blocking	Reported
(Co)-stimulation	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.1 mg	2.4G2
559339	Purified NA/LE Hamster IgG2, κ Isotype Control	0.5 mg	B81-3

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/pharmingen/hamster_chart_11x17.pdf.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

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