Technical Data Sheet

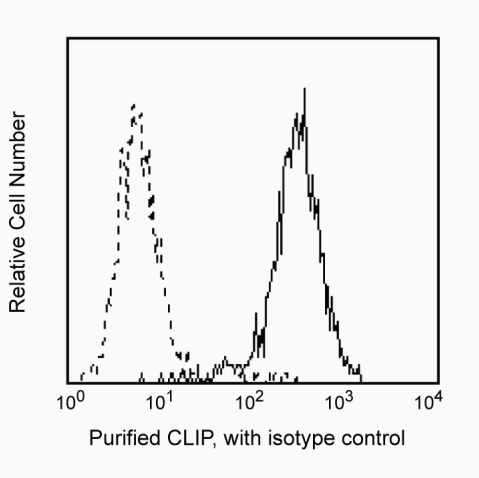
Purified Mouse Anti-Human CLIP

Product Information

Material Number:	**555980**
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	CerCLIP
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	NA
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Reacts with the class II associated invariant chain peptides (CLIP). CLIP is the remaining segment of class II invariant chain (Ii) after proteolytic degradation which stays associated with HLA-DR and represents a final intermediate in the removal of invariant chain from class II molecules during antigen processing. The removal of CLIP and subsequent loading of the antigenic peptide is facilitated by the non-classical class II molecule HLA-DM. CLIP can be detected, in association with HLA-DR, on the surface of T2DR3, a mutant cell line lacking HLA-DM.



Profile of CLIP expressed on T2DR3 cell line analyzed on a FACScan (BDIS, San Jose, CA)

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

BD Biosciences

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Denzin LK, Cresswell P. HLA-DM induces CLIP dissociation from MHC class II alpha beta dimers and facilitates peptide loading. *Cell.* 1995; 82(1):155-165.(Biology)

Denzin LK, Hammond C, Cresswell P. HLA-DM interactions with intermediates in HLA-DR maturation and a role for HLA-DM in stabilizing empty HLA-DR molecules. *J Exp Med.* 1996; 184(186):2153-2165.(Biology)

Denzin LK, Robbins NF, Carboy-Newcomb C, Cresswell P. Assembly and intracellular transport of HLA-DM and correction of the class II antigen-processing defect in T2 cells. *Immunity.* 1994; 1(7):595-606.(Biology)

Kropshofer H, Hämmerling GJ, Vogt AB. How HLA-DM edits the MHC class II peptide repertoire: survival of the fittest. *Immunol Today.* 1997; 18(2):77-82.(Biology)

Riberdy JM, Avva RR, Geuze HJ, Cresswell P. Transport and intracellular distribution of MHC class II molecules and associated invariant chain in normal and antigen-processing mutant cell lines. *J Cell Biol.* 1994; 125(126):1225-1237.(Biology)

Riberdy JM, Newcomb JR, Surman MJ, Barbosa JA, Cresswell P. HLA-DR molecules from an antigen-processing mutant cell line are associated with invariant chain peptides. *Nature.* 1992; 360(6403):474-477.(Biology)