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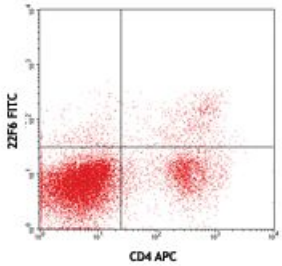
Product Data Sheet

FITC anti-mouse/human Helios

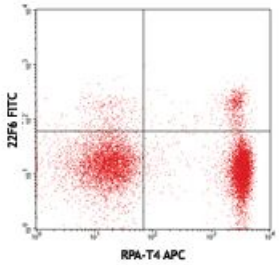
Catalog # / Size:	1286020 / 25 tests 1286070 / 100 tests
Clone:	22F6
Isotype:	Hamster IgG
Immunogen:	Helios peptide (aa 51-107)
Reactivity:	Human, Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	VII 70322
Concentration:	Lot-specific



C57BL/6 splenocytes surface stained with CD4-APC (GK1.5), and then were intracellularly stained with Helios-FITC (clone 22F6).

Applications:

Applications:	Intracellular Staining for Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by intracellular flow cytometry . It is recommended that the reagent be titrated for optimal performance for each application. **Test size products are transitioning from 20 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	**NOTE**: For flow cytometric staining with this clone, True-Nuclear™ Transcription Factor Buffer Set offers improved staining and is highly recommended.



Human peripheral blood lymphocytes surface stained with CD4-APC (RPA-T4), and then were intracellulary stained with Helios-FITC (clone 22F6).

Application References:

1. Thornton AM, *et al.* 2010. *J. Immunol.* 184:1. PubMed
2. Verhagen J and Wraith D. 2010. *J. Immunol.* 185:7129.
3. Stone B, *et al.* 2012. *Clin Immunol.* 145:153. PubMed
4. Vaeth M, *et al.* 2012. *PNAS.* 109:16258. PubMed
5. Angin M, *et al.* 2014. *PLoS One.* 9:86920. PubMed
6. Bedke T, *et al.* 2014. *Immunol Cell Biol.* PubMed
7. Liu Y, *et al.* 2014. *Am J Physiol Gastrointest Liver Physiol.* 307:177. PubMed
8. Verhagen J and Wraith DC. 2014. *J. Immunol. Methods.* S0022. (FC) PubMed

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Description: Helios is a member of the Ikaros family of zinc finger transcription factors. It contains a C-terminal region composed of 2 zinc-finger domains that mediate dimerization between the family members. Helios was originally cloned from a mouse thymoma line. It is mainly expressed in peripheral T cells and thymocytes. It is found at high levels in a subpopulation of regulatory T cells. Helios plays an important role in T cell development and homeostasis. Overexpression of Helios profoundly alters αβ T cell differentiation and activation. It has been determined that silencing of Helios in B cells is critical for maintaining normal B cell function. Helios is also involved in tumor immunity.

Antigen References:

1. Kelly CM, *et al.* 1998. *Curr. Biol*. 8:508.
2. Dovat S, *et al.* 2005. *J. Immunol.* 175:3508.
3. Cortes M, *et al.* 1999. *Curr. Opin. Immunol*. 11:167.
4. Cai Q, *et al.* 2009. *J. Immunol.* 183:2303.
5. Zhang Z, *et al.* 2007. *Blood* 109:2190.
6. Hahm K, *et al.* 1998. *Genes Dev*. 12:782.

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