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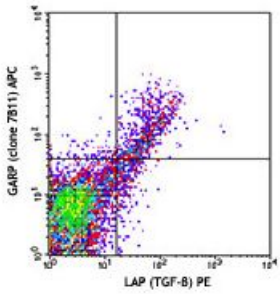
Product Data Sheet

APC anti-human GARP (LRRC32)

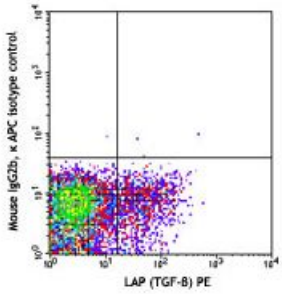
Catalog # / Size:	2362530 / 100 tests 2362525 / 25 tests
Clone:	7B11
Isotype:	Mouse IgG2b, κ
Immunogen:	LRRC32-DNA vaccination
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	VII 70443
Concentration:	Lot-specific



Human peripheral blood mononuclear cells were stimulated with CD3 (UCHT1), CD28 (CD28.2), and recombinant human IL-2 for 24 hours; and then stained with CD4 PerCP, LAP (TGF-β) PE and GARP (7B11) APC (top) or mouse IgG2b, κAPC isotype control (bottom). Data was analyzed by gating on CD4-positive cells.

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **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.



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Description: Glycoprotein A Repetitions Predominant (GARP), also known as leucine rich repeat containing 32 (LRC32), is a 80 kD type I membrane glycoprotein with 20 leucine rich repeats in the extracellular portion of the protein. GARP was found on the surface of megakaryocytes, platelets, and activated Tregs (CD4+, CD25+, FoxP3+ cells) and serves as a receptor for latent TGF-β. Recent evidence suggests that GARP may play a role in controlling suppressor function of Tregs. A mutation in GARP has been reported in a large Samaritan kindred with Usher syndrome type 1, an autosomal recessive disease characterized by profound congenital sensorineural deafness, vestibular dysfunction, and progressive visual loss. In addition, it has been found that GARP mRNA is highly amplified in different tumors, which indicates that tumor cells may use GARP to express TGF-β or to capture TGF-β from their surroundings, resulting in local suppression of anti-tumor immune responses or the induction of Tregs.

Antigen References:

1. Ollendorff V, *et al.* 1994. *Cell. Growth Differ.* 5:213.
2. Stockis J, *et al.* 2009. *Eur. J. Immunol.* 39:3315.
3. Wang R, *et al.* 2009. *P. Natl. Acad. Sci. USA* 106:13439.
4. Tran DQ, *et al.* 2009. *P. Natl. Acad. Sci. USA* 106:13445.

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