TECHNICAL DATA SHEET

Purified Anti-Human GARP (GARP5)

Catalog Number: 70-9882

PRODUCT INFORMATION

Contents: Purified Anti-Human GARP (GARP5)

Isotype: Mouse IgG1

Concentration: 0.5 mg/mL

Clone: GARP5

Reactivity: Human

Formulation: 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, pH7.2

DESCRIPTION

The GARP5 antibody reacts with human GARP, also known as LRRC32 or Garpin, an 80 kDa transmembrane protein which acts as a receptor for the latent form of TGF-beta 1 (pro-TGF-beta), preventing its secretion. Specifically, GARP is reported to associate with the pro-domain of TGF-beta 1, known as latency-associated peptide (LAP), which must be cleaved to release the biologically active cytokine. The putative role of GARP in sequestering the TGF-beta is important for regulating its activity, as TGF-beta signaling is involved in development and function of Th17, Treg and many other immune cell types. GARP expression has been shown on platelets and at high levels on Foxp3+ Treg cells, where it is proposed to be a phenotypic identifier for activated human Treg cells.The GARP5 antibody may be used for analysis of GARP by flow cytometry, immunoprecipitation and western blotting.

PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

Wang I, Zhu J, Dong X, Shi M, Lu C, and Springer TA. 2012. Mol. Biol. Cell. 23: 1129 – 1139. (flow cytometry, immunoprecipitation, western blot)..