



PERFORMANCE DATA SHEET

2441

Monoclonal anti-human FOXP3 *

mAb name/Clone: ANCFX2D7

Isotype: Mouse IgG1k

Immunogen: Recombinant human FOXP3

CATALOG#: 333-020

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: The FOXP3 molecule is a 50–55 kD transcription factor also known as IPEX, JM2, Forkhead box 3, and Scurfin. Defects in the gene can result in lethal autoimmune disease (2). Along with surface molecules CD4 and CD25(IL-2R), it is a useful marker for identifying T regulatory cells. FOXP3 is thought to mediate oxidative phosphorylation, enabling Treg to function in a lower oxygen environment (3).

Clone ANCFX2D7 binds to full length recombinant FOXP3 in EIA. Additionally it binds to a FOXP3(R1-R3) construct (aa1 – 198) but not to a FOXP3(R1) construct (aa 1-70), suggesting that its epitope is likely within aa 71 – 198.

It also binds to nuclear FOXP3 found constitutively in a 0.5 – 3% sub population of fixed, permeabilized CD4+ peripheral blood lymphoid cells in FACS

FOXP3 References: 1) G Roncador, A H Banham, et al. (2005) *Eur J Immunol* **35**(6): 1681-1691. PMID: 15902688. 2) S Hori, S Sakaguchi, (2004) *Microbes and Infection* **6**(8): 745-751. 3) U H Beier, W W Hancock, et al. (2016) *J Immunol* **196**(1 suppl 211.3).

STORAGE CONDITIONS: *Store at 2 - 5°C.* Freeze/Thawing is not recommended.

PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin sulfate (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2 µm filtered and vialled under aseptic conditions.

PERFORMANCE: Antibody specific activity was tested in **EIA** using an immobilized recombinant FOXP3(R1,2,3)-µIg (*Inquire*) construct for capture and GAM(Fab specific)/HRP as a detector followed by TMB/H202 substrate. ANCFX2D7 was detectable at **20 ng/ml** with a **7.2** fold S/N ratio.

* *Research Use Only. Not for use in Diagnostic procedures.*