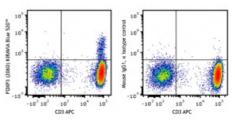
KIRAVIA Blue 520[™] anti-human FOXP3

Catalog # / Size:	2200660 / 100 tests 2200655 / 25 tests
Clone:	206D
lsotype:	Mouse IgG1, κ
Immunogen:	Full-length FOXP3 protein
Reactivity:	Human, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with KIRAVIA Blue 520™ under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	VI C-7
Concentration:	Lot-specific

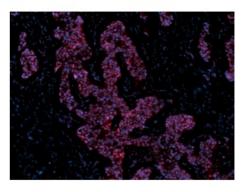


Human peripheral blood lymphocytes were surface stained with anti-human CD3 APC and then treated with True-Nuclear™ Transcription Factor Buffer Set. Cells were then stained with antihuman FOXP3 KIRAVIA Blue 520™ (clone 206D) (right) or mouse IgG1, κ KIRAVIA Blue 520™ isotype control (left).

Applications:

Applications:	Intracellular Staining for Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* KIRAVIA Blue 520™ has an

* KIRAVIA Blue 520[™] has an excitation maximum of 495 nm, and a maximum emission of 520 nm.



Formalin-fixed paraffin-embedded human breast cancer tissue slices were deparaffinized and rehydrated. Antigen retrieval was done with Tris-Buffered Saline 1X (1.0 M, pH 7.4) at 95°C for 40 minutes, washed with PBS/0.05% Tween 20 twice for five minutes, permeabilized with 0.5% Triton X-100 for ten minutes, and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the slices were stained with 5 µg/mL anti-EGFR (clone A19002A) Alexa Fluor® 647 (red) at 4°C overnight. Nuclei were counterstained with DAPI (green). The image was captured with a 10X objective.

Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections ¹ and formalin-fixed paraffin-embedded sections ^{1,8,19-20} , and Western blotting ¹ . The binding of 206D to FOXP3 can be partially blocked by 259D, but 206D does not show significant blocking effect on 259D binding.
	NOT E: For flow cytometric staining with this clone, True-Nuclear™ Transcription Factor Buffer Set (Cat. No. 2722005) offers improved staining and is highly recommended.
Application References:	 Roncador G, et al. 2005. Eur. J. Immunol. 35:1681.(IHC) Yang ZZ, et al. 2006. Blood 107:3639. Liu W, et al. 2006. J. Exp. Med. 203:1701.PubMed Bollyky PL, et al. 2007. J. Immunol. 179:744. Bell MP, et al. 2007. J. Immunol. 179:1893. Tran DQ, et al. 2007. Blood doi:10.1182/blood-2007-06-094656. PubMed Gao Q, et al. 2007. J Clin Oncol.25:2586. (IHC) PubMed Pillai V, et al. 2008. Blood 111:463. PubMed Zheng Y, et al. 2008. Blood 112:287. PubMed Zonios DI, et al. 2008. Blood 112:287. PubMed Kavanagh B, et al. 2009. Clin Cancer Res. 15:1931. PubMed Grant J, et al. 2009. Cytometry B Clin Cytom. 76:69. PubMed Kinjeciak M, et al. 2009. J. Transl. Med. 7:89. (ICFC) PubMed Kmieciak M, et al. 2009. J. Transl. Med. 7:89. (ICFC) PubMed Hartigan-O'Connor DJ, et al. 2007. J Exp Med.204:2679. PubMed Hartigan-O'Connor DJ, et al. 2007. J Exp Med.204:2679. PubMed Hodi FS, et al. 2014. Cancer Immunol Res. 2:632. (IHC) PubMed Sziros E, et al. 2015. Clin Cancer Res. 21:2840. (IHC) PubMed

Description: FOXP3 is a 50-55 kD transcription factor, also known as Forkhead box protein P3, Scurfin, JM2, or IPEX. It is proposed to be a master regulatory gene and more specific marker of T regulatory cells than most cell surface markers (such as CD4 and CD25). Transduced expression of FOXP3 in CD4⁺/CD25⁻ cells has been shown to induce GITR, CD103, and CTLA4 and impart a T regulatory cell phenotype. FOXP3 is mutated in X-linked autoimmunity-allergic dysregulation syndrome (XLAAD or IPEX) in humans and in "scurfy" mice. Overexpression of FOXP3 has been shown to lead to a hypoactive immune state suggesting that this transcriptional factor is a central regulator of T cell activity. In human, unlike in mouse, two isoforms of FOXP3 have been reported: one (FOXP3 δ2) lacking exon 2. The 206D antibody recognizes human FOXP3 epitope in the region of amino acids 105-235.

Antigen	1. Hori S, <i>et al.</i> 2003. <i>Science</i> 299:1057.
References:	2. Gandhi R, et al. 2010. Nat. Immunol. 11:846.