Product Data Sheet

lymphocytes were stained with CD19 APC and CD3 (clone UCHT1)

KIRAVIA Blue 520™ (left) or

mouse IgG1, K KIRAVIA Blue 520[™] isotype control (right).

Human Peripheral blood

KIRAVIA Blue 520™ anti-human CD3

Catalog # / 2102405 / 25 tests

Size: 2102410 / 100 tests

Clone: UCHT1

Isotype: Mouse IgG1, κ

Reactivity: Human, Other

The antibody was purified by affinity Preparation:

> 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

III 471 Number:

Concentration: Lot-specific

Applications:

Applications: 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 µL per million cells in 100 µL 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 excitation maximum of 495 nm, and a maximum

emission of 520 nm.

Application Notes:

Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections^{4,6,7} and formalin-fixed paraffin-embedded sections 11, immunoprecipitation 1, activation of T cells^{2,3,5}, and Western blotting⁹.

Application References:

- 1. Salmeron A, et al. 1991. J. Immunol. 147:3047. (IP)
- 2. Graves J, et al. 1991. J. Immunol. 146:2102. (Activ)
- 3. Lafont V, et al. 2000. J. Biol. Chem. 275:19282. (Activ)
- 4. Ryschich E, et al. 2003. Tissue Antigens 62:48. (IHC)
- 5. Thompson AG, et al. 2004. J. Immunol. 173:1671. (Activ)
- 6. Sakkas LI, et al. 1998. Clin. Diagn. Lab. Immun. 5:430. (IHC)
- 7. Mack CL, et al. 2004. Pediatr. Res. 56:79. (IHC)
- 8. Thakral D, et al. 2008. J. Immunol. 180:7431. (FC) PubMed
- 9. Van Dongen JJM, et al. 1988. Blood 71:603. (WB)
- 10. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)
- 11. Pollard, K. et al. 1987. J. Histochem. Cytochem. 35:1329. (IHC)
- 12. Luckashenak N, et al. 2013. J. Immunol. 190:27. PubMed
- 13. Laurent AJ, et al. 2014. PLoS One. 9:103683. PubMed
- 14. Li J, et al. 2015. Cancer Res. 75:508. PubMed
- 15. Stoeckius M. et al. 2017. Nat. Methods. 14:865-868. (PG)

Description: CD3ɛ is a 20 kD chain of the CD3/T-cell receptor (TCR) complex which is

composed of two CD3 ϵ , one CD3 γ , one CD3 δ , one CD3 ζ (CD247), and a T-cell receptor (α/β or γ/δ) heterodimer. It is found on all mature T cells, NKT cells, and some thymocytes. CD3, also known as T3, is a member of the immunoglobulin superfamily that plays a role in antigen recognition, signal transduction, and T cell activation.

Antigen References:

- 1. Barclay N, et al. 1993. The Leucocyte FactsBook. Academic Press. San Diego.
- Beverly P, et al. 1981. Eur. J. Immunol. 11:329.
 Lanier L, et al. 1986. J. Immunol. 137:2501-2507.