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Product Data Sheet

Alexa Fluor® 647 anti-human ROR1

Catalog # / Size: 2389105 / 25 tests
2389110 / 100 tests

Clone: 2A2

Isotype: Mouse IgG1, κ

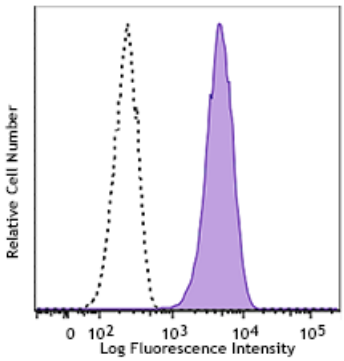
Immunogen: ROR1-Fc fusion protein

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: Lot-specific



Human teratocarcinoma cell line NCCIT was stained with ROR1 (clone 2A2) Alexa Fluor® 647 (filled histogram) or mouse IgG1, κ Alexa Fluor® 647 isotype control (open histogram).

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 or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

Application Notes: Clone 2A2 binds to the membrane distal Ig-domain of ROR1. Clone 2A2 has also been shown to exhibit cross reactivity towards mouse ROR1[2].

Application References:

1. Dave H, *et al.* 2012. *PLoS One* 7:e52655. (FC)
2. Baskar S, *et al.* 2012. *MAbs.* 4:349. (FC)

Description: ROR1, also known as NTRKR1, is a type I transmembrane protein and member of the ROR subfamily of surface receptors. ROR1 consists of one frizzled domain, one Ig-like C2-type domain, one kringle domain, and one kinase domain with no catalytic activity. ROR1 is expressed on embryonic tissue, in the central nervous system and on some cancer cells, and is used as a marker for B-cell chronic lymphocytic leukemia. Wnt5a has been identified as a ligand for ROR1.

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Antigen References:

1. Bicocca VT, *et al.* 2012. *Cancer Cell.* 22:656.
2. Zhang S, *et al.* 2012. *PLoS One* 7:e31127.
3. Uhrmacher S, *et al.* 2011. *Leuk Res.* 35:1360.
4. Yang J, *et al.* 2011. *PLoS One* 6:e21018.
5. Grumolato L, *et al.* 2010. *Genes Dev.* 24:2517.

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