

**Brilliant Violet 711™ anti-human ROR1**

**Catalog # / Size:** 2389060 / 100 tests  
2389055 / 25 tests

**Clone:** 2A2

**Isotype:** Mouse IgG1,  $\kappa$

**Reactivity:** Human

**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  $\leq 5$  microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd.

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**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 ROR12.

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**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.