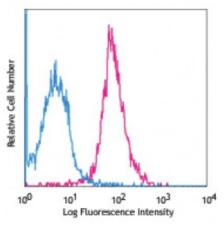
## **Product Data Sheet**

## Alexa Fluor<sup>®</sup> 647 anti-human CD202b (Tie2/Tek)

Catalog # / Size:	2271050 / 100 tests 2271045 / 25 tests
Clone:	33.1 (Ab33)
Isotype:	Mouse IgG1 κ
Immunogen:	Recombinant extracellular domain of human Tie2
<b>Reactivity:</b>	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 0.2% (w/v) BSA (origin USA).
<b>Concentration:</b>	Lot-specific



Human endothelial cell line, HUVEC, stained with 33.1 Alexa Fluor® 647

## **Applications:**

**Applications:** Flow Cytometry Each lot of this antibody is quality control tested by immunofluorescent staining Recommended Usage: with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 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. \* Alexa Fluor<sup>®</sup> 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm. Application Additional reported applications include: immunoprecipitation, Wstern blot, Notes: immunohistochemical staining of frozen tissue sections and ELISA Application 1.Peters KG, et al. 1998. Br. J. Cancer. 77:51. **References:** 2.Wong AL, et al. 1997. Circ. Res. 81:567. 3. Lin P, et al. 1998. P. Natl. Acad. Sci. USA 95:8829. 4. Rogacev KS, et al. 2015. Nephrol Dial Transplant. 30:143. PubMed **Description:** CD202b is a 145 kD type I transmembrane protein, also known as Tie2 or TEK. It is a member of the receptor tyrosine kinase (RTK) family of proteins and is expressed by endothelial cells and their progenitors, quiescent hematopoietic stem cells (HSCs), and a subpopulation of monocytes. Angiopoietin-1 (Ang-1) is an activator of CD202b to promote, maintain, and stabilize mature vessels and to maintain HSCs in guiescent state. Ang-2 is another ligand of CD202b, which is involved in postnatal angiogenesis and in antagonizing the effects of Ang-1. Tie2 binds to Ang-4 as well. Antigen 1.De Palma M, et al. 2005. Cancer Cell. 8:211 2.Shaw JP, et al. 2004. Blood Cells Mol. Dis. 32:168 **References:** 3. Hsu HC, et al. 2000. Blood. 96:3757 4. Arai F, et al. 2004. Cell.

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