SONY

Product Data Sheet

PE anti-human SUSD2

Catalog # / Size: 2237530 / 100 tests

Clone: W3D5

Isotype: Mouse IgG2a, κ

Immunogen: Retinoblastoma cell line (Weri-RB-1 cells).

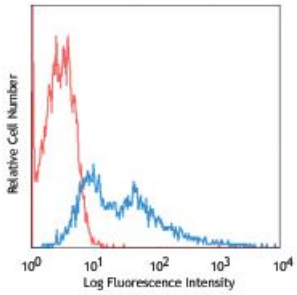
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.

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

Workshop Number: HCDM listed

Concentration: Lot-specific

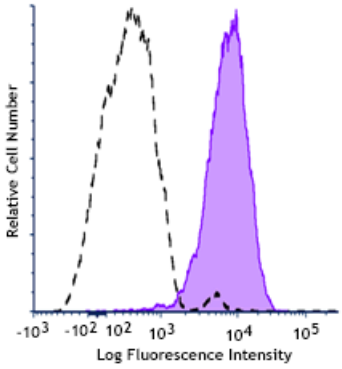


Human bone marrow-derived mesenchymal stem cells stained with W3D5 PE

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Human peripheral blood granulocytes were stained with anti-human CD10 (clone HI10a) Spark YG™ 593 (filled histogram) or mouse IgG1, κ Spark Violet™ 593 isotype control (open histogram).

Application References:

1. Sivasubramaniyan K, *et al.* 2013. *Stem Cells Dev.* 22:1944. PubMed

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Description: The W3D5 antibody reacts with SUSD2 (sushi domain containing 2) which is expressed by bone marrow mesenchymal stem cells, vessel-surrounding smooth muscle cells, and a few neoplastic cell lines. SUSD2 is a recently identified type I transmembrane protein of 820 amino acids consisting of a large extracellular region containing a Somatomedin B (SMB), an Adhesion-associated domain in MUC4 and Other Proteins (AMOP), a von Willebrand factor (vWF), and a F1c Sushi domain. Mesenchymal stem cells (MSCs) were originally named bone marrow stromal cells. They are a population of adult stem cells with a large capacity for self-renewal and multipotency for differentiation into a variety of cell types including osteoblasts, chondrocytes, myocytes, adipocytes, β-pancreatic islets cells, and certain neuronal cells. MSCs reside in many cells and tissues, such as bone marrow, placenta, adipose tissue, adult peripheral blood, fetal blood, skin, liver, and lung. Besides their plasticity for tissue repair, MSCs also exhibit powerful immunosuppressive activity and play an important role in supporting hematopoiesis.

Antigen References:

1. Buhring HJ, *et al.* 2007. *Ann. N. Y. Acad. Sci.* 1106:262.
2. Jackson L, *et al.* 2007. *J. Postgrad. Med.* 53:121.
3. Krampera M, *et al.* 2003. *Blood* 101:3722.
4. Ball LM, *et al.* 2007. *Blood* 110:2764.

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