

Anti-Human CD133 PE

Catalog Number :15411-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: TMP4

Format/Conjugate: PE

Concentration: 5 uL (0.25 ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The TMP4 monoclonal antibody specifically reacts with human CD133 is a pentaspan transmembrane glycoprotein that localizes to cellular protrusions that is also known as prominin-1. It is expressed on neuronal stem, glial, hematopoietic, and glioblastoma stem cells. While the biological functions of this marker are not completely understood, it is frequently utilized as a stem cell marker for normal and cancerous tissue.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1. Sahlberg, S. H., Spiegelberg, D., Glimelius, B., Stenerlöv, B., Nestor, M. (2014). Evaluation of cancer stem cell markers CD133, CD44, CD24: association with AKT isoforms and radiation resistance in colon cancer cells.; PLoS one.;9(4), e94621.
2. Grosse-Gehling, P., Fargeas, C. A., Dittfeld, C., Garbe, Y., Alison, M. R., Corbeil, D., Kunz-Schughart, L. A. (2013). CD133 as a biomarker for putative cancer stem cells in solid tumours: limitations, problems and challenges.; The Journal of pathology.;229(3), 355-378.
3. Reichert, D., Scheinpflug, J., Karbanová, J., Freund, D., Bornhäuser, M., Corbeil, D. (2016). Tunneling nanotubes mediate the transfer of stem cell marker CD133 between hematopoietic progenitor cells.; Experimental hematology.;44(11), 1092-1112.