Product Description

The HIT2 antibody reacts with CD38, an ~45 kDa type II transmembrane glycoprotein expressed by many cell types, especially leukocytes. CD38 is an ectoenzyme (ADP-ribosyl hydrolase) with both cyclase and hydrolase activities, whereby it mediates lymphocyte activation, adhesion and metabolism. CD31 is a known ligand for the receptor. In humans, CD38 is expressed by the majority of hematopoietic cells at levels which vary according to the differentiation and activation status of the cells. It is highly expressed on activated T and B cells and plasma cells, and is also found at high levels in several tissues, including brain, kidney, liver, ovary, pancreas, placenta, testis, and some types of cancerous tissue.

Target Antigen Name: CD38
Alternative Names: T10, ADP-ribosyl cyclase
Gene ID: 952
Species Reactivity: Human, Chimpanzee
Host Species: Mouse
Clonality: Monoclonal
Clone: HIT2
Isotype: IgG1, kappa
Immunogen: Human fetal thymocytes
Conjugate: PE

Applications

Verified: CellSep, FC
Reported: FC
Special Applications: This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human CD138 Positive Selection Kit (Catalog #18357) and EasySep™ Human Whole Blood CD138 Positive Selection Kit (Catalog #18387).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; WB: Western blotting

Properties

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) bovine serum albumin (origin USA)
Purification: The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please request a lot-specific Certificate of Analysis from techsupport@stemcell.com.
Directions for Use: For flow cytometry the suggested use of this antibody is 5 μL per 1 x 10e6 cells in 100 μL volume or per 100 μL of whole blood. It is recommended that the antibody be titrated for optimal performance for each application.
Data

Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD38 Antibody, Clone HIT2, PE (filled histogram) or a mouse IgG1, kappa PE isotype control antibody (open histogram).

Related Products

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References