Technical Data Sheet

BUV395 Rat Anti-Human CD49f

Product Information

Material Number: 564958
Alternate Name: ITGA6; ITGoH3 monoclonal integrin alpha-6; Integrin α6 chain; VLA-6; ITA6
Size: 100 Tests
Vol. per Test: 5 µl
Clone: GoH3
Immunogen: Mouse mammary tumor cells
Isotype: Rat (SD) IgG2a, κ
Reactivity: QC Testing: Human
Workshop: IV P55
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The GoH3 monoclonal antibody specifically binds to CD49f which is also known as integrin α6 chain. CD49f is a ~150 kDa type I transmembrane glycoprotein that belongs to the integrin alpha chain family of extracellular matrix and cell adhesion receptors. The integrin α6 subunit associates with the integrin β1 chain (CD29) to form VLA-6 and with the integrin β4 chain (CD104) to form the integrin α6β4 complex, also known as the laminin and kalinin receptor. CD49f is expressed mainly on T cells, monocytes, platelets, epithelial cells, endothelial cells, perineural cells, and trophoblasts of placenta. GoH3 recognizes an extracellular epitope of integrin α6 on human, mouse and bovine cells. GoH3 has been reported to block the binding of integrin α6 to laminin P1 and E8 fragments.

The antibody was conjugated to BD Horizon BUV395 which has been exclusively developed by BD Biosciences as an optimal dye for use on a 355 nm laser equipped instrument. With an Ex Max at 348 nm and an Em Max at 395 nm, this dye has virtually no spillover into any other detector. BD Horizon BUV395 can be excited with a 355 nm laser and detected with a 379/28 filter.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with BD Horizon™ BUV395 under optimum conditions, and unconjugated antibody and free BD Horizon™ BUV395 were removed.

Application Notes

Application

Flow cytometry Routinely Tested
Suggested Companion Products

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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
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<td>555899</td>
<td>Lysing Buffer</td>
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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References

