Product Information

Material Number: 565687
Alternate Name: Cd96; T cell-activated increased late expression protein; Tactile; TACT
Size: 50 µg
Concentration: 0.2 mg/ml
Clone: 6A6
Immunogen: Mouse Tactile Recombinant Protein
Isotype: Rat IgG2a, λ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 6A6 monoclonal antibody specifically binds to mouse CD96, which is also known as T cell-activated increased late expression protein (Tactile, TACT). CD96 is a type I transmembrane glycoprotein that belongs to the Ig gene superfamily. It is variably expressed on NK cells, and T cells at all developmental stages, including thymocytes and mature αβ T cells, γδ T cells, and NKT cells. CD96 interacts with Nectin-1 (CD111) and CD155 (poliovirus receptor). CD96 can reportedly mediate adhesive interactions between NK cells or T cells and CD155+ target cells. CD96 may compete with CD226 (DNAM 1) for CD155 binding and thus limit NK cell cytokine responses.

The antibody was conjugated to BD Horizon BV421 which is part of the BD Horizon Brilliant™ Violet family of dyes. With an Ex Max of 407-nm and Em Max at 421-nm, BD Horizon BV421 can be excited by the violet laser and detected in the standard Pacific Blue™ filter set (eg, 450/50-nm filter). BD Horizon BV421 conjugates are very bright, often exhibiting a 10 fold improvement in brightness compared to Pacific Blue conjugates.

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 to BD Horizon BV421 under optimum conditions, and unconjugated antibody and free BD Horizon BV421 were removed.
Recommended Assay Procedure:
For optimal and reproducible results, BD Horizon Brilliant Stain Buffer should be used anytime two or more BD Horizon Brilliant dyes are used in the same experiment. Fluorescent dye interactions may cause staining artifacts which may affect data interpretation. The BD Horizon Brilliant Stain Buffer was designed to minimize these interactions. More information can be found in the Technical Data Sheet of the BD Horizon Brilliant Stain Buffer (Cat. No. 563794/566349).

Suggested Companion Products

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<tr>
<td>566349</td>
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Product Notices
1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.
5. Pacific Blue™ is a trademark of Molecular Probes, Inc., Eugene, OR.
6. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
8. BD Horizon Brilliant Violet 421 is covered by one or more of the following US patents: 8,158,444; 8,362,193; 8,575,303; 8,354,239.
9. BD Horizon Brilliant Stain Buffer is covered by one or more of the following US patents: 8,110,673; 8,158,444; 8,575,303; 8,354,239.
10. Cy is a trademark of GE Healthcare.

References