

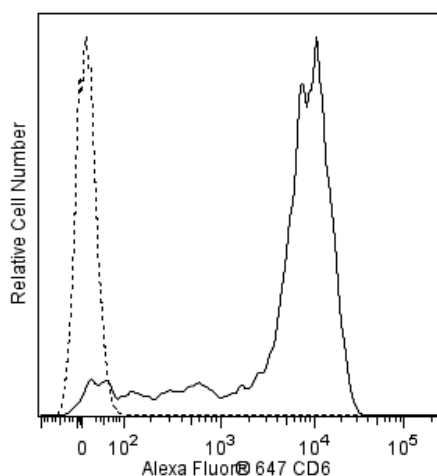
## Technical Data Sheet

**Alexa Fluor® 647 Mouse Anti-Human CD6****Product Information**

<b>Material Number:</b>	<b>564260</b>
<b>Alternate Name:</b>	T12; TP120
<b>Size:</b>	100 Tests
<b>Vol. per Test:</b>	5 µl
<b>Clone:</b>	M-T605
<b>Isotype:</b>	Mouse (BALB/c) IgG1, κ
<b>Reactivity:</b>	QC Testing: Human
<b>Workshop:</b>	IV T148
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

**Description**

The M-T605 monoclonal antibody specifically binds to CD6. CD6 is a 100-130 kDa type I transmembrane glycoprotein present on more than 80% of mature T cells and a subset of B cells. CD6 is also weakly expressed on cortical thymocytes. CD6 binds to CD166 and reportedly plays roles in cellular adhesion, costimulation of T lymphocyte proliferation, and the regulation of lymphocyte apoptosis. The antibody is useful for investigation of CD6+ B-cell function.



**Flow cytometric analysis of CD6 expression on human peripheral blood lymphocytes.** Whole blood was stained with either Alexa Fluor® 647 Mouse IgG1, κ Isotype Control (Cat. No. 557714; dashed line histogram) or Alexa Fluor® 647 Mouse Anti-Human CD6 (Cat. No. 564260; solid line histogram). Erythrocytes were lysed with Lysing Buffer (Cat. No. 555899). The fluorescence histograms were derived from gated events with the forward and side light-scattering characteristics of viable lymphocytes. Flow cytometric analysis was performed on a BD™ LSR II.

**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 Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.

**Application Notes****Application**

Flow cytometry

Routinely Tested

**Suggested Companion Products**

Catalog Number	Name	Size	Clone
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)
557714	Alexa Fluor® 647 Mouse IgG1 κ Isotype Control	100 Tests	MOPC-21
349202	BD FACSTM Lysing Solution	100 mL	(none)
555899	Lysing Buffer	100 mL	(none)

**BD Biosciences**

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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- $\mu$ l 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. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
6. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
7. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
8. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
9. Please refer to [www.bdbiosciences.com/pharming/protocols](http://www.bdbiosciences.com/pharming/protocols) for technical protocols.

## References

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