**For Research Use Only.
Not for use in diagnostic procedures.**

MONOCLONAL ANTIBODY

Anti-CD155 (Human) mAb-FITC

Code No.	Clone	Subclass	Quantity	Concentration
D174-4	TX21	Rat IgG2a	100 µL	500 µg/mL

BACKGROUND: CD155, transmembrane glycoprotein, is a member of the immunoglobulin superfamily also known as the human receptor for poliovirus (PVR). CD155 localizes in cell-matrix adhesions and cell-cell junctions. PV receptor CD155 forms a complex with PV (PV1, PV2, and PV3). Both glycosylated and fully deglycosylated CD155 exhibited similar binding sites and orientations in the viral canyon for all three PV serotypes, showing that all three serotypes use a common mechanism for cell entry. It is reported that CD155 and CD112/nectin-2/PRR-2 are ligands of CD226/DNAM-1.

SOURCE: This antibody was purified from hybridoma (clone TX21) supernatant using protein G agarose. This hybridoma was established by fusion of mouse myeloma cell Sp2/0 with Wister rat lymphocyte immunized with the recombinant human CD155.

FORMULATION: 50 µg IgG in 100 µL volume of PBS containing 1% BSA and 0.1% ProClin 150.

STORAGE: This antibody solution is stable for one year from the date of purchase when stored at 4°C.

REACTIVITY: This antibody reacts with human CD155 antigen on Flow cytometry.

APPLICATIONS:

Flow cytometry; 5-10 µg/mL (final concentration)
*Please refer to the data sheet (MBL code no. D174-3) for other applications.

Detailed procedure is provided in the following **PROTOCOL**.

SPECIES CROSS REACTIVITY:

Species	Human	Mouse	Rat
Cell	KG-1	Not tested	Not tested
Reactivity on FCM	+		

INTENDED USE:

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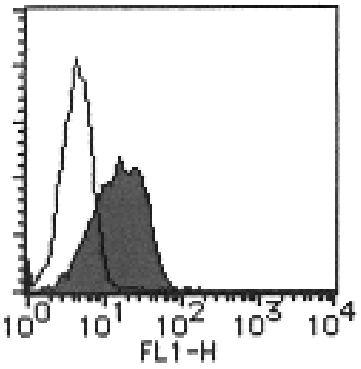
REFERENCES:

1) El-Jawhari, J. J., *et al.*, *Mol. Immunol.* **58**, 160-168 (2014) [FCM]
2) Takahashi, Y., *et al.*, *Biochem. Biophys. Res. Commun.* **368**, 501-507 (2008)
3) Tahara-Hanaoka, S., *et al.*, *Blood* **107**, 1491-1496 (2006)
4) Tahara-Hanaoka, S., *et al.*, *Int. Immunol.* **16**, 533-538 (2004)
5) Bottino, C., *et al.*, *J. Exp. Med.* **198**, 557-567 (2003)

RELATED PRODUCTS:

D174-3 Anti-CD155 (Human) mAb (TX21)
D174-5 Anti-CD155 (Human) mAb-PE (TX21)
D172-3 Anti-CD226 (DNAM-1) (Human) mAb (TX25)
D172-4 Anti-CD226 (DNAM-1) (Human) mAb-FITC (TX25)
D175-3 Anti-CD112 (Human) mAb (TX31)
D175-4 Anti-CD112 (Human) mAb-FITC (TX31)
K0224-3 Anti-Nectin-3 (CD113) (Human) mAb (N3.12.4)
K0224-A48 Anti-Nectin-3 (CD113) (Human) mAb -Alexa Fluor® 488 (N3.12.4)



Flow cytometric analysis of CD155 expression on KG-1 cells. *Open histogram indicate the reaction of isotypic control to the cells. Shaded histograms indicate the reaction of D174-4 to the cells.*

PROTOCOL:

Flow cytometric analysis for floating cells

We usually use Fisher tubes or equivalents as reaction tubes for all step described below.

1) Wash the cells 3 times with washing buffer [PBS containing 2% fetal calf serum (FCS) and 0.09% NaN_3].
*Azide may react with copper or lead in plumbing system to form explosive metal azides. Therefore, always flush plenty of water when disposing materials containing azide into drain.
2) Resuspend the cells with washing buffer ($5x10^6$ cells/mL).

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e-mail support@mbl.co.jp, TEL 052-238-1904

3) Add 50 μL of the cell suspension into each tube, and centrifuge at 500 x g for 1 minute at room temperature (20~25°C). Remove supernatant by careful aspiration.
4) Add 10 μL of Clear Back (human Fc receptor blocking reagent, MBL; code no. MTG-001) to the cell pellet after tapping. Mix well and incubate for 5 minutes at room temperature.
5) Add 30 μL of the primary antibody at the concentration of as suggested in the **APPLICATIONS** diluted with the washing buffer. Mix well and incubate for 30 minutes at room temperature.
6) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.
7) Resuspend the cells with 500 μL of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; KG-1)