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

MONOCLONAL ANTIBODY

Anti-CD155 (Human) mAb

Code No.	Clone	Subclass	Quantity	Concentration
D174-3	TX21	Rat IgG2a	100 µL	1 mg/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 complexed 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 commom mechanism for cell entry. We have known CD155 and CD112 (nectin-2/PRR-2) are ligands of CD226 (DNAM-1) recently.

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

FORMULATION: 100 µg IgG in 100 µL volume of PBS containing 50% glycerol, pH 7.2. No preservative is contained.

STORAGE: This antibody solution is stable for one year from the date of purchase when stored at -20°C.

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

APPLICATIONS:

Western blotting; Not tested
Immunoprecipitation; Not tested
Immunocytochemistry; Not tested
Immunohistochemistry; Not tested
Flow cytometry; 5-10 µg/mL (final concentration)

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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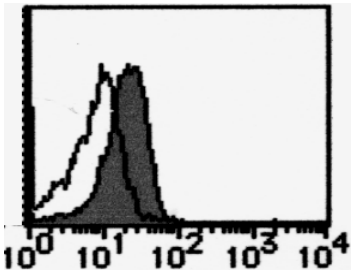
REFERENCES:

1) Yu, X., *et al.*, *Nat. Immunol.* **10**, 48-57 (2009)
2) El-Sherbiny, Y. M., *et al.*, *Cancer Res.* **67**, 8444-8449 (2007)
3) Bottino, C., *et al.*, *J. Exp. Med.* **198**, 557-567 (2003)

Clone TX21 is used in these references.

RELATED PRODUCTS:

D174-4 Anti-CD155 (Human) mAb-FITC (TX21)
D174-5 Anti-CD155 (Human) mAb-PE (TX21)
D175-3 Anti-CD112 (Human) mAb (TX31)
D175-4 Anti-CD112 (Human) mAb-FITC (TX31)
D172-3 Anti-CD226 (DNAM-1) (Human) mAb (TX25)
D172-4 Anti-CD226 (DNAM-1) (Human) mAb-FITC (TX25)



Flow cytometric analysis of CD155 expression on KG-1 cells. *Open histogram indicates the reaction of Isotypic control to the cells. Shaded histogram indicates the reaction of D174-3 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).
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.

MBL MEDICAL & BIOLOGICAL LABORATORIES CO., LTD.
URL http://ruo.mbl.co.jp
e-mail support@mbl.co.jp, TEL 052-238-1904

5) Add 40 µL of the primary antibody 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) Add PE-conjugated anti-rat IgG antibody diluted with the washing buffer. Mix well and incubate for 15 minutes at room temperature.
8) 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.
9) Resuspend the cells with 500 µL of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; KG-1)