

# Product Data Sheet

## PE anti-human CD112 (Nectin-2)

**Catalog # / Size:** 337409 / 25 tests  
337410 / 100 tests

**Clone:** TX31

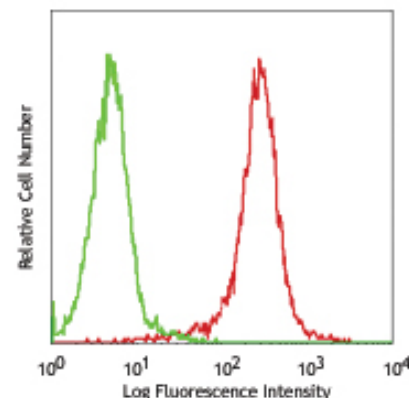
**Isotype:** Mouse IgG1,  $\kappa$

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



KG1a (human myeloid leukemia cell line) stained with TX31 PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** Additional reported applications include: partially block CD226-Fc binding to CD112 transfectant and partially inhibit the cytotoxicity mediated by NK and T cells.

**Application References:** 1. Tahara-Hanaoka S, *et al.* 2004. *Int. Immunol.* 16:533  
2. Lim O, *et al.* 2013. *PLoS One.* 8:e53611. PubMed.

**Description:** CD112, known as poliovirus receptor related 2 protein (PRR2), Nectin-2, or Hve B, is a type I transmembrane glycoprotein, a member of the Ig gene superfamily. It is primarily found on myelomonocytic cells, megakaryocytes, dendritic cells, mast cells, CD34-positive stem cells, endothelial cells, epithelial cells, and neuronal cells. CD112 functions as a receptor for  $\alpha$ -herpes viruses HSV-1 and pseudorabies virus (PRV). CD112 is an adhesion molecule involved in the formation of cell junction and regulation of NK- and T-cells mediated cytotoxicity through interaction with CD226 (DNAM-1) and other nectin family molecules.

**Antigen References:** 1. Zola H *et al.* Eds. 2007. *Leukocyte and Stromal Cell Molecules: The CD Markers*. Wiley-Liss A John Wiley & Sons Inc, Publication  
2. Bachelet I, *et al.* 2006. *J. Bio. Chem.* 281:27190  
3. Pende D, *et al.* 2006. *Blood* 107:2030  
4. Bottino C, *et al.* 2003. *J. Exp. Med.* 198:557

**Related Products:** **Product**  
PE Mouse IgG1,  $\kappa$  Isotype Ctrl (FC)  
Cell Staining Buffer  
RBC Lysis Buffer (10X)  
Human TruStain FcX™ (Fc Receptor Blocking Solution)

**Clone**  
MOPC-21

**Application**  
FC  
FC, ICC, ICFC  
FC, ICFC  
FC, ICC, ICFC



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