

# Product Data Sheet

## PE anti-mouse MAIR-IV (CLM-5)

**Catalog # / Size:** 139605 / 25 µg

**Clone:** TX69

**Isotype:** Rat IgG2a, κ

**Immunogen:** MAIR-IV transfected BW5147 cells

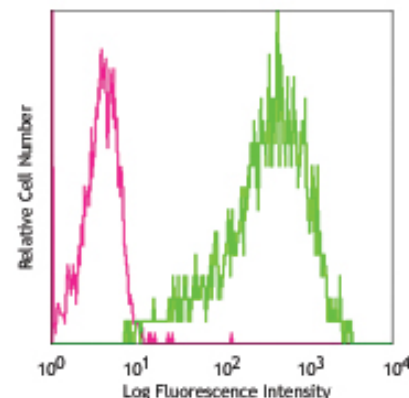
**Reactivity:** Mouse

**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.

**Concentration:** 0.2 mg/ml

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



Mouse MAIR-IV transfected cells stained with TX-69 PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: Western blot<sup>1</sup>, plate-coated TX69 induced secretion of IL-6, and TNF-α by neutrophils<sup>1</sup>.

**Application References:** 1. Nakano T, *et al.* 2008. *Mol. Immunol.* 45:289. (Activ, WB)

**Description:** MAIR-IV, also known as LMIR4 or CLM5, is a member of the myeloid-associated immunoglobulin-like receptor family (MAIR, CD300). It is preferentially expressed on Gr-1<sup>+</sup>/Mac-1<sup>+</sup> neutrophils in the peripheral blood, bone marrow, peritoneal cavity, and spleen. It is also found on Mac-1<sup>+</sup>/Gr-1<sup>+</sup> macrophages and CD11c<sup>+</sup> dendritic cells. In association with the immunoreceptor tyrosine based activating motif (ITAM)-bearing adaptor FcRγ, MAIR-IV mediates activation signals for neutrophils.

**Antigen References:** 1. Shibuya A, *et al.* 2009. *Immune Network* 9:41.  
 2. Can I, *et al.* 2008. *J. Immunol.* 180:207.  
 3. Nakano T, *et al.* 2008. *Mol. Immunol.* 45:289.

### Related Products:

**Product**  
 PE Rat IgG2a, κ Isotype Ctrl  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)  
 TruStain fcX™ (anti-mouse CD16/32)

**Clone**  
 RTK2758

93

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



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biollegend.com/ordering#license](http://www.biollegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.