

## DESCRIPTION

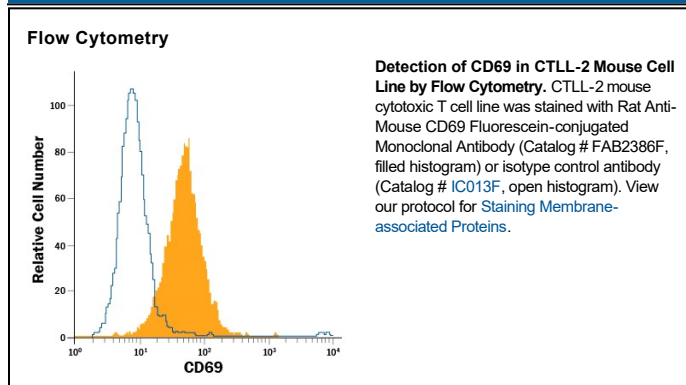
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CD69 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human CD69 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 310106
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse CD69 Gly64-Arg199 Accession # P37217
<b>Conjugate</b>	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm (FITC)
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

## DATA



## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> ● 12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

CD69, also known as Leu 23, AIM, EA-1 and MLR-3, is a 23-34 kDa member of the NK receptor family. It is a homodimeric type II transmembrane protein containing a Ca<sup>++</sup>-independent C-type lectin domain that appears very early following leukocyte activation. Leukocytes known to express CD69 include T cells, B cells, Neutrophils, NK cells and monocytes. Although CD69 ligation has been described as promoting inflammation, some studies suggest that CD69 regulates inflammation by interfering with Th17 differentiation. This may be accomplished by Galectin-1 expression on DC binding to CD69 expressed on CD4<sup>+</sup> T cells. Over amino acids (aa) 64-199, mouse CD69 shares 78% and 57% aa sequence identity with rat and human CD69, respectively.