

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CD96 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human CD96v2 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 630612
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse CD96 Val22-Met536 Accession # Q3U0X8
<b>Conjugate</b>	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
<b>Formulation</b>	Supplied 0.2 mg/mL 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>	0.25-1 µg/10 <sup>6</sup> cells	Mouse splenocytes

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** **Protect from light. Do not freeze.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

Mouse CD96, also known as Tactile, is a 170-180 kDa member of the Ig-Superfamily. It is expressed on CD4<sup>+</sup> and CD8<sup>+</sup> T cells, NK and NKT cells, resting monocytes and γδ T cells. Mouse CD96 binds to CD155 and Nectin-1, and likely participates in cell-to-cell adhesion. Mature mouse CD96 is a 581 amino acid (aa), type I transmembrane glycoprotein. It contains a 515 aa extracellular region (aa 22-536) that contains three Ig-like domains, plus a 45 aa cytoplasmic region. The two N-terminal domains are V-type (aa 24-244), while the distal domain is a C-type structure (aa 250-355). Unlike human, there is no splice variant in the second V-type domain. There is, however, a potential isoform that shows a single Cys substitution for aa 437-602. Over aa 1-536, mouse CD96 shares 55% and 79% aa identity with human and rat CD96, respectively.

## PRODUCT SPECIFIC NOTICES

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