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## Anti-Mouse CD96 Functional Grade Purified

**Catalog Number:** 16-0960

**Also known as:** TACTILE

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

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### Product Information

**Contents:** Anti-Mouse CD96 Functional Grade Purified

 **Catalog Number:** 16-0960

**Clone:** 6A6

**Concentration:** 1 mg/mL

**Host/Isotype:** Rat IgG2a

**Handling Conditions:** Use in sterile environment.

**Endotoxin:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide

**Temperature Limitation:** Store at 2-8°C.

 **Batch Code:** Refer to vial

 **Use By:** Refer to vial

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### Description

This 6A6 monoclonal antibody reacts with mouse CD96, a cell adhesion receptor also known as TACTILE. A member of the Ig superfamily, CD96 is a single pass transmembrane protein consisting of three extracellular Ig-like domains and a proline/serine/threonine rich region. CD96 is expressed on resident monocytes and T cells at all developmental stages (including  $\gamma\delta$  T cells, thymocytes, and NK cells). In the mouse, this receptor is not expressed on B cells. Unlike in humans, mouse CD96 does not exist as alternative splice variants. Reports indicate that CD96 binds CD155/poliovirus receptor and Nectin-1 to mediate NK cell adhesion to target cells and cytotoxicity.

This monoclonal antibody has been reported to block CD96 interaction with CD155 and Nectin-1.

### Applications Reported

This 6A6 antibody has been reported for use in functional assays.

### Applications Tested

This 6A6 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Meyer D, Seth S, Albrecht J, Maier MK, du Pasquier L, Ravens I, Dreyer L, Burger R, Gramatzki M, Schwinzer R, Kremmer E, Foerster R, Bernhardt G. CD96 interaction with CD155 via its first Ig-like domain is modulated by alternative splicing or mutations in distal Ig-like domains. J Biol Chem. 2009 Jan 23;284(4):2235-44.

Seth S, Maier MK, Qiu Q, Ravens I, Kremmer E, Förster R, Bernhardt G. The murine pan T cell marker CD96 is an adhesion receptor for CD155 and nectin-1. Biochem Biophys Res Commun. 2007 Dec 28;364(4):959-65. (6A6, FC, Pubmed)

Fuchs A, Cella M, Giurisato E, Shaw AS, Colonna M. Cutting edge: CD96 (tactile) promotes NK cell-target cell adhesion by interacting with the poliovirus receptor (CD155). J Immunol. 2004 Apr 1;172(7):3994-8.

### Related Products

16-4321 Rat IgG2a K Isotype Control Functional Grade Purified (eBR2a)

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