

**Monoclonal Anti-Guinea Pig Vascular Cell Adhesion Molecule-1 Protein, Clone GP4.5E10.11B (produced *in vitro*)**

**Catalog No. NR-49545**

**For research use only. Not for human use.**

**Contributor and Manufacturer:**

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**Manufacturing Date:**

March 6, 2013

**Product Description:**

Antibody Class: IgG1 $\lambda$

Mouse monoclonal antibody prepared against a recombinant form of the vascular cell adhesion molecule-1 (VCAM-1) protein of guinea pig was purified from clone GP4.5E10.11B murine hybridoma supernatant by affinity chromatography. The recombinant VCAM-1 protein with the transmembrane domain removed and with a C-terminal histidine tag was expressed in human embryonic kidney HEK293 cells.<sup>1</sup> The B cell hybridoma was generated by the fusion of NS0 myeloma cells with immunized mouse splenocytes.<sup>1</sup> VCAM-1 (or CD106) is a type 1 membrane protein expressed on endothelial cells upon stimulation by cytokines.<sup>2</sup>

**Material Provided:**

Each vial contains approximately 100  $\mu$ L of purified monoclonal antibody in 10 mM PBS (pH 7.4) at a concentration of 1 mg per mL.

**Packaging/Storage:**

NR-49545 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. The item should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

**Functional Activity:**

NR-49545 is reactive in ELISA and western blot analyses.<sup>1</sup>

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Guinea Pig Vascular Cell Adhesion Molecule-1 Protein, Clone GP4.5E10.11B (produced *in vitro*), NR-49545.”

**Biosafety Level: 1**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following

publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Mukherjee, J., Personal Communication.
2. Cook-Mills, J. M., M. E. Marchese and H. Abdala-Valencia. “Vascular Cell Adhesion Molecule-1 Expression and Signaling during Disease: Regulation by Reactive Oxygen Species and Antioxidants.” Antioxid. Redox Signal. 15 (2011): 1607-1638. PubMed: 21050132.

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