

Avanti's Antibody for Atherosclerosis Research

E06 mAb

Avanti Number
330001

The E06 antibody is a murine monoclonal IgM natural antibody that binds to oxidized phospholipid and reacts with oxidized LDL, oxidized HDL and protein covalently modified by oxidized phospholipid. This antibody has been used to probe atherosclerotic plaque in mice, zebrafish, rabbits, monkeys and humans.

It also binds to apoptotic cells, but not viable cells, and can be used in a variety of applications, including ELISA, immunohistochemistry and Western blot analysis, as well as for *in vivo* imaging with MRI techniques.

Avanti now provides high purity E06 from animal-free culture of hybridoma cells. Each batch is verified for activity and provided with detailed protocols for the above applications.

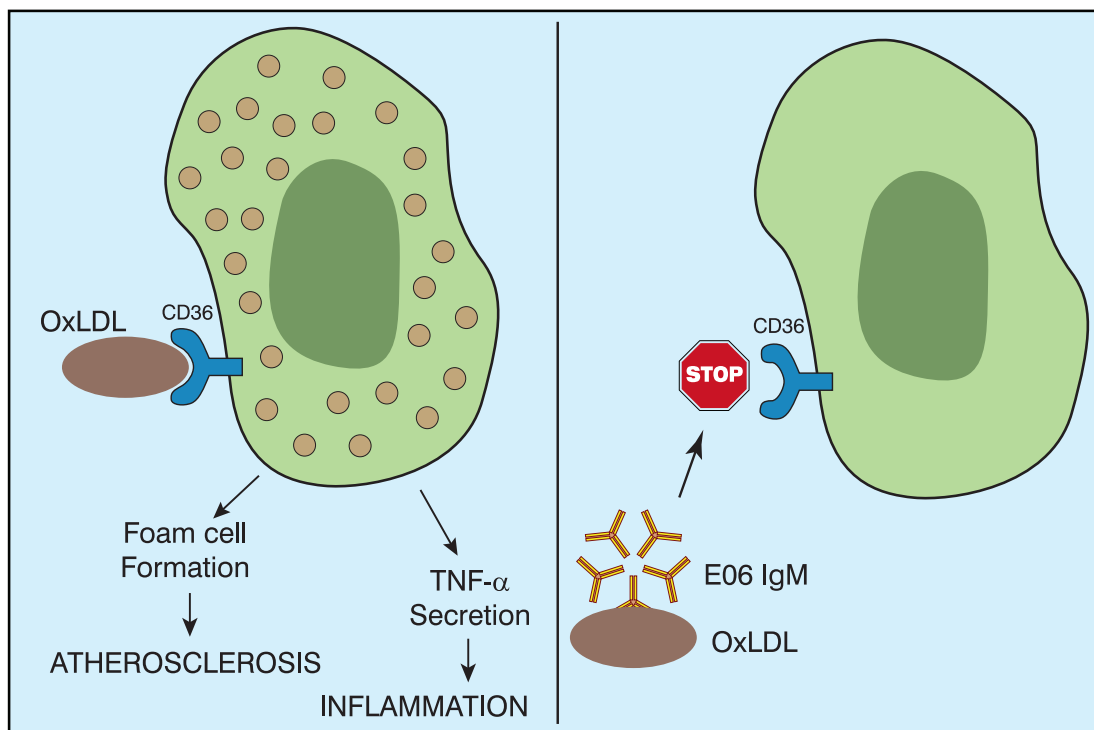
The E06 antibody was developed by Dr. Joseph Witztum at the University of California, San Diego using apolipoprotein E knock-out mice fed a high-fat diet for seven months.

References:

- Palinski W, Hökkö S, Miller E, Steinbrecher UP, Powell HC, Curtiss LK, Witztum JL. Cloning of monoclonal autoantibodies to epitopes of oxidized lipoproteins from apolipoprotein E-deficient mice. Demonstration of epitopes of oxidized low density lipoprotein in human plasma. *J Clin Invest.* 1996 98: 800-14.
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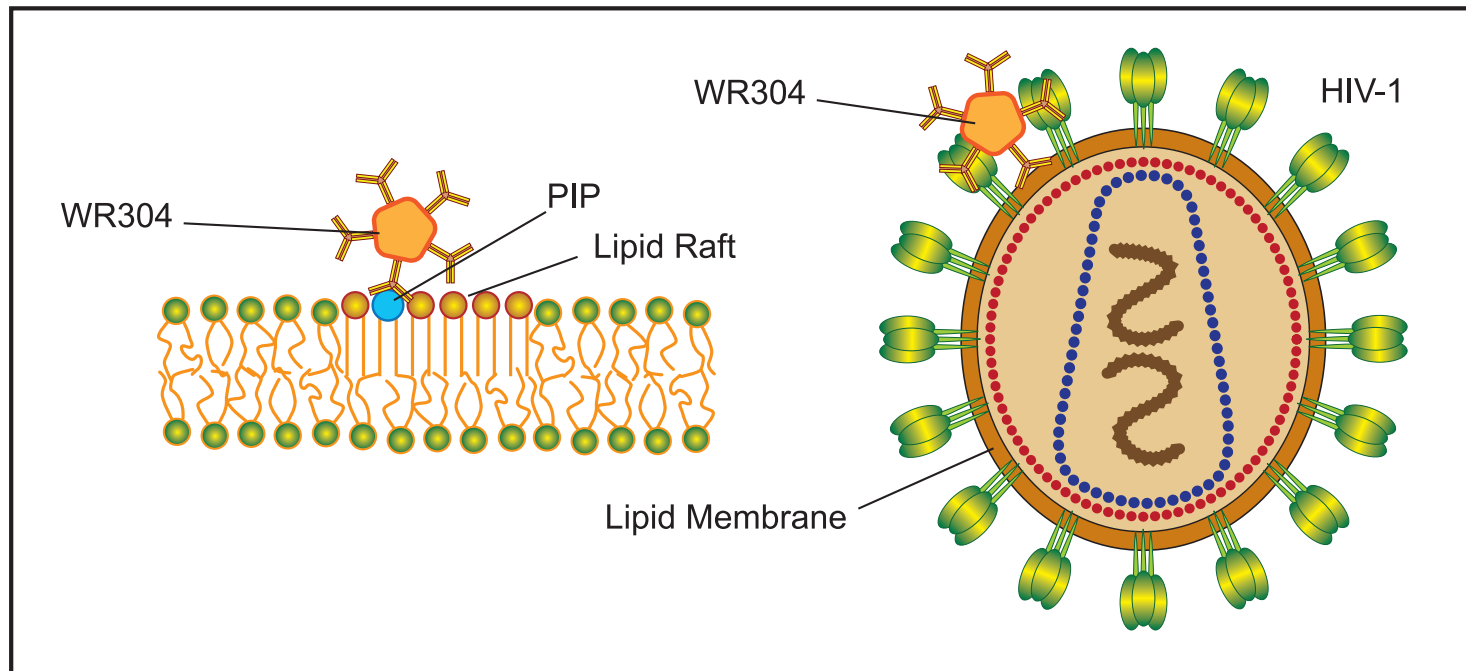
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Avanti's Antibody for HIV Research

WR304 mAb

Avanti Number 330021



WR304 mAb is a Targeted, Mouse Monoclonal Antibody for Inositol Phosphate Signaling and HIV Research

WR304 is an antibody that binds specifically to the lipids PIP, PIP₂, POPA, DMPA, cholesterol, squalene and Lipid A. WR304 also neutralizes infectious HIV-1 virus and can be used to probe the presence of PIP and PIP₂ in membranes in a variety of applications including inositol phosphate-dependent cell signaling pathways.

This antibody was produced using a targeted adjuvant protocol with liposomes containing Avanti's Lipid A.

References:

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- Matyas, G.R., Z. Beck, N. Karasavvas, and C.R. Alving. (2009). Lipid binding properties of 4E10, 2F5, and WR304 monoclonal antibodies that neutralize HIV-1. *Biochim Biophys Acta* 1788:660-5.
- Brown, B.K., N. Karasavvas, Z. Beck, G.R. Matyas, D.L. Birx, V.R. Polonis, and C.R. Alving. (2007). Monoclonal antibodies to phosphatidylinositol phosphate neutralize human immunodeficiency virus type 1: role of phosphate-binding subsites. *J Virol* 81:2087-91.
- Beck, Z., N. Karasavvas, J. Tong, G.R. Matyas, M. Rao, and C.R. Alving. (2007). Calcium modulation of monoclonal antibody binding to phosphatidylinositol phosphate. *Biochem Biophys Res Commun* 354:747-51.

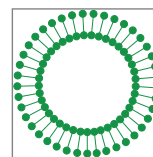
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