

Hycult biotechnology

OLR1/LOX1, Clone 23C11, Human mAb

Catalog No.	HM2138	Quantity:	100 µg
Description:	<p>The monoclonal antibody 23C11 reacts with lectin-like oxidized low-density lipoprotein receptor-1 (LOX-1). LOX-1 belongs to the C-type lectin-like protein superfamily. This unique scavenger receptor plays important roles in atherogenesis. Like other scavenger receptors, LOX-1 has a wide spectrum of physiological ligands, including OxLDL, anionic phospholipids, aged/apoptotic cells, activated platelets, and bacteria. The LOX-1 gene is a so-called immediate early gene that is dynamically modulated by several factors <i>in vitro</i> and <i>in vivo</i>. LOX-1 expression is induced by stimuli such as inflammatory cytokines, OxLDL, TNF-alpha, TGF-beta, and ANG II <i>in vitro</i>, and several proatherogenic factors <i>in vivo</i>. Monoclonal antibody 23C11 neutralizes LOX-1 and inhibits Hsp70 binding to dendritic cells and Hsp70-induced antigen cross-presentation. <i>In vivo</i>, targeting LOX-1 with a tumor antigen using anti-LOX-1 antibody 23C11 induces antitumor immunity.</p>		
Concentration:	100 µg/ml		
Specificity:	Human OLR1/LOX1		
Host:	Mouse		
Isotype:	IgG ₁		
Clone:	23C11		
Formulation:	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin.		
Applications	<p>The monoclonal antibody 23C11 can be used for flow cytometry and for neutralization of the biological activity of LOX-1.</p> <p>For flow cytometry dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10. For neutralization of biological activity <i>in vitro</i> dilutions have to be made according to the amounts of LOX-1 to be inactivated.</p>		
Storage & Stability:	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.		
References:	1. Delneste, Y et al; Involvement of LOX-1 in dendritic cell-mediated antigen cross-presentation. <i>Immunity</i> 2002, 17: 353		
Also available:	HM2122: Monoclonal antibody against Human CD36, clone FA6-152		

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