MONOCLONAL ANTIBODY TO HUMAN LOX-1
clone 23C11

Catalog nr HM2138 (lot number and expiry date are indicated on the label)

Description 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 in vitro and in vivo. LOX-1 expression is induced by stimuli such as inflammatory cytokines, OxLDL, TNF-alpha, TGF-beta, and ANG II in vitro, and several proatherogenic factors in vivo. Monoclonal antibody 23C11 neutralizes LOX-1 and inhibits Hsp70 binding to dendritic cells and Hsp70-induced antigen cross-presentation. In vivo, targeting LOX-1 with a tumor antigen using anti-LOX-1 antibody 23C11 induces antitumor immunity.

Aliases SCARE1, CLEC8A, OLR1

Species Mouse IgG_1

Formulation 1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin.

Application The monoclonal antibody 23C11 can be used for flow cytometry and for neutralization of the biological activity of LOX-1.

Use 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 1:50. For neutralization of biological activity in vitro dilutions have to be made according to the amounts of LOX-1 to be inactivated.

Storage and stability Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.

Precautions For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use or derivation of this product.

References

1. Delneste, Y et al; Involvement of LOX-1 in dendritic cell-mediated antigen cross-presentation. Immunity 2002, *17*: 353

Also available

HM2122	Monoclonal antibody against Human CD36, clone FA6-152
HM2122BT	Biotinylated monoclonal antibody against Human CD36, clone FA6-152
HM2122F	FITC conjugated monoclonal antibody against Human CD36, clone FA6-152
HM2138BT	Biotinylated monoclonal antibody against Human LOX-1, clone 23C11
HM2138F	FITC conjugated monoclonal antibody against Human LOX-1, clone 23C11