



Anti-Lipoprotein a monoclonal antibody, clone FQS7585 (DCABH-1722)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Product Overview | Rabbit monoclonal to Lipoprotein a |
| Antigen Description | Lipoprotein(a) (Lp(a)) is a lipoprotein subclass assembled in the blood from low density lipoprotein (LDL) molecules and apolipoprotein-a (apo-a). Lp(a) recruits inflammatory cells through interaction with Mac-1 integrin. High Lp(a) in blood is a risk factor for coronary heart disease, cerebrovascular disease, atherosclerosis, thrombosis, and stroke. Lp(a) concentrations may be affected by disease states, but are only moderately affected by diet, exercise and other environmental factors. Lipid-reducing drugs have no effect on Lp(a) concentration. High Lp(a) predicts risk of early atherosclerosis similar to high LDL, but in advanced atherosclerosis, Lp(a) is a risk factor independent of LDL, indicating a coagulant risk of plaque thrombosis. Apo(a) contains domains that are very similar to plasminogen (PLG). Lp(a) accumulates in the vessel wall and inhibits binding of PLG to the cell surface, reducing plasmin generation which increases clotting. This inhibition also promotes proliferation of smooth muscle cells. These unique features of Lp(a) suggest a role in the generation of clots and atherosclerosis. |
| Target | Lipoprotein a |
| Immunogen | A synthetic peptide, corresponding to residues in Human Lipoprotein a. |
| Isotype | IgG |
| Source/Host | Rabbit |
| Species Reactivity | Human |
| Clone | FQS7585 |
| Conjugate | Unconjugated |

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| Applications | WB, IHC-P Recommended dilution: WB: 1:5000 IHC-P: 1:1000 |
| Positive Control | Human plasma lysate; Human kidney tissue. |
| Format | Liquid |
| Size | 100 µl |
| Buffer | 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA. |
| Preservative | 0.01% Sodium Azide |
| Storage | Store at -20°C. Stable for 12 months at -20°C |

GENE INFORMATION

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| Gene Name | LPA lipoprotein, Lp(a) [Homo sapiens] |
| Official Symbol | LPA |
| Synonyms | LPA; lipoprotein, Lp(a); LP; apolipoprotein(a); lp(a); apo(a); antiangiogenic AK38 protein; AK38; APOA; |
| Entrez Gene ID | 4018 |
| Protein Refseq | NP_005568 |
| Chromosome Location | 6q25-q26 |
| Pathway | LDL-mediated lipid transport, organism-specific biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem; Lipoprotein metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; amb2 Integrin signaling, organism-specific biosystem. |
| Function | apolipoprotein binding; endopeptidase inhibitor activity; fibronectin binding; heparin binding; peptidase activity; serine-type endopeptidase activity; |