

Product datasheet

Human Lipoprotein A Antibody Pair - BSA and Azide free ab241862

RabMAb

Overview

Product name Human Lipoprotein A Antibody Pair - BSA and Azide free

Detection method Colorimetric

Assay type ELISA set

Range 15.625 ng/ml - 1000 ng/ml

Species reactivity **Reacts with:** Human

Product overview The Antibody Pair can be used to quantify Human Lipoprotein A. BSA and Azide free antibody pairs include unconjugated capture and detector antibodies suitable for sandwich ELISAs. The antibodies are provided at an approximate concentration of 1 mg/ml as measured by the protein A280 method. The recommended antibody orientation is based on internal optimization for ELISA-based assays. Antibody orientation is assay dependent and needs to be optimized for each assay type. Both capture and detector antibodies are rabbit monoclonal antibodies delivering consistent, specific, and sensitive results.

For additional information on the performance of the antibody pair, see the equivalent SimpleStep ELISA® Kit ([ab212165](#)), which uses the same antibodies. However, due to differences in their formulation, this antibody pair cannot be used with the consumables provided with our SimpleStep ELISA Kits. Please note that the range provided for the pairs is only an estimation based on the performance of the related product using the same antibody pair. Performance of the antibody pair will depend on the specific characteristics of your assay. We guarantee the product works in sandwich ELISA, but we do not guarantee the sensitivity or dynamic range of the antibody pair in your assay.

To receive an electronic copy of the Certificate of Analysis, please send an email to technical support with "CoA for matched antibody pair kit" in the subject line and the desired product number and lot number in the body of the email.

Download SDS [here](#).

Tested applications **Suitable for:** ELISA

Platform Reagents

Properties

Storage instructions Store at +4°C. Please refer to protocols.

Components	10 x 96 tests
Human Lipoprotein A Capture Antibody	1 x 100µg
Human Lipoprotein A Detector Antibody	1 x 100µg

Relevance

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.

Applications

Our [Abpromise guarantee](#) covers the use of **ab241862** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.

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