

**PAA603Hu01****Polyclonal Antibody to Apolipoprotein B100 (APOB100)****Organism Species: Homo sapiens (Human)*****Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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9th Edition (Revised in Jul, 2013)

**[ PRODUCT INFORMATION ]****Immunogen:** APOB100, Human**Clonality:** Polyclonal**Host:** Rabbit**Immunoglobulin Type:** IgG**Purification:** Affinity Chromatography.**Applications:** WB, ICC, IHC-P, IHC-F, ELISA**Concentration:** 350µg/mL**UOM:** 500µg**[ IMMUNOGEN INFORMATION ]****Immunogen:** Native Protein APOB100.**Accession No.:** NPA603Hu01**[ RELEVANCE ]**

Apolipoprotein B (ApoB) are the primary apolipoproteins of chylomicrons and low-density lipoproteins, which is responsible for carrying cholesterol to tissues. The protein occurs in the plasma in 2 main isoforms, ApoB48 and ApoB100. The first is synthesized exclusively by the small intestine, the second by the liver. ApoB100 is found in lipoproteins originating from the liver (VLDL, IDL, LDL). Importantly, there is one ApoB100 molecule per hepatic-derived lipoprotein. Hence, using that fact, one can quantify the number of lipoprotein particles by noting the total ApoB100 concentration in the circulation. It is well established that ApoB100 levels are associated with coronary heart disease, and are even a better predictor of it than is LDL level.

## **[ ANTIBODY SPECIFICITY ]**

The antibody is a rabbit polyclonal antibody raised against APOB100. It has been selected for its ability to recognize APOB100 in immunohistochemical staining and western blotting.

## **[ APPLICATIONS ]**

Western blotting: 1:100-400

Immunocytochemistry in formalin fixed cells: 1:100-500

Immunohistochemistry in formalin fixed frozen section: 1:100-500

Immunohistochemistry in paraffin section: 1:50-200

Enzyme-linked Immunosorbent Assay: 1:100-200

Optimal working dilutions must be determined by end user.

## **[ CONTENTS ]**

**Form & Buffer:** Supplied as solution form in PBS, pH7.4, containing 0.02%  $\text{NaN}_3$ , 50% glycerol.

## **[ STORAGE ]**

Store at 4°C for frequent use. Stored at -20°C to -80°C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.