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MRM Proteomics  
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RESEARCH PRODUCTS

# PeptiQuant™ MRM Assay Kits – Apolipoproteins



Researchers in academia and life science industries continue to adopt a targeted, bottom-up MS-based proteomic workflow for biomarker discovery and validation. Biomarker validation requires absolute quantification of surrogate peptides in the sample matrix, a requirement that is best achieved using stable isotope-enriched peptide internal standards (SIS). Although the use of SIS has increased the reliability of LC/MRM-MS based assays, optimal results require properly functioning equipment and a workflow with minimal human error and bias.

CIL is pleased to offer the **PeptiQuant™ Biomarker Assessment Kit – Apolipoproteins (APO-14)**, to help researchers monitor multiple key apolipoproteins in human plasma. This turnkey solution contains the reagents and software tools to simultaneously measure up to 14 apolipoproteins in a sample of human plasma.

## Benefits of PeptiQuant™ Kits

- Acquire more precise and accurate quantitative data
- Identify performance deficits related to your equipment
- Pinpoint method-specific issues that need to be addressed
- Diminish interlaboratory variability
- Improve method transferability

## Performing biomarker discovery or biomarker validation?

The **PeptiQuant™ Biomarker Assessment Kit – Apolipoproteins (APO-14)** has been developed for rapid and precise quantitation of 14 plasma apolipoproteins (see list on back) utilizing 27 surrogate peptides, valuable in both biomarker discovery and validation studies. The APO-14 provides an easy solution for non-expert users to rigorously assess the utility and significance of 14 apolipoproteins in various disease states in only 20 µL of human plasma.

The apolipoproteins can be quantified in the user-supplied reference (or control) human plasma and the user's experimental samples from peptide surrogates (27 interference-free in total) using linear regression of peptide standard curves. The software tool – Qualis-SIS – facilitates automated curve generation and effortless interpretation of the quantitative results.

Each kit contains the following items:

- Lyophilized SIS peptide mixture for spiking into reference plasma sample digest for standard curve generation
- Lyophilized SIS peptide mixture for spiking into experimental sample digests
- USB drive that contains the manual appropriate for the LC/MS instrument, the certificate of analysis for the SIS peptide mixture, the required acquisition methods, the data analysis method for MassHunter, and the input files for Qualis-SIS and guideline values (e.g., endogenous protein concentration, dynamic range, etc.) for the reference plasma sample

*(continued)*

**Cambridge Isotope Laboratories, Inc. is the exclusive distributor of MRM Proteomics Inc.**

To place an order please contact CIL: | t: +1.978.749.8000 | 1.800.322.1174 (North America) | cilsales@isotope.com

For international inquiries, please contact our International Customer Service Department at intl@isotope.com.

Kits are available for 20 or 50 samples

Catalog No.	Description
APO-A6490-14-20	PeptiQuant™ Apolipoprotein Biomarker Assessment Kit for 14 Proteins using the Agilent 6490/UPLC 1260
APO-A6495-14-20	PeptiQuant™ Apolipoprotein Biomarker Assessment Kit for 14 Proteins using the Agilent 6495/UPLC 1260

## 14 Quantifiable Proteins

Apolipoprotein A-I	Apolipoprotein D
Apolipoprotein A-II	Apolipoprotein E
Apolipoprotein A-IV	Apolipoprotein L1
Apolipoprotein B-100	Apolipoprotein M
Apolipoprotein C-I	Apolipoprotein(a)
Apolipoprotein C-II	Beta-2-glycoprotein 1
Apolipoprotein C-IV	Clusterin

**Custom kits  
are available.  
Please  
inquire.**

*Please contact us if you do not see your protein(s) of interest listed above. We have the capability to supply custom kits to suit a variety of needs. If you are interested in using these kits but your LC/MS instrument is not listed, again, please contact us. We are developing kits for other platforms – if a kit for your LC/MS instrument is not yet available, we may be able to supply it as a custom kit.*

*For more information regarding these products and MRM Proteomics Inc. please visit [mrmproteomics.com](http://mrmproteomics.com).*

**Research products are distributed and sold worldwide via our extensive network.**

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