

## Laboratory Report

Name:

Lab Episode Number: 22002162

HN:

DOB : 03/10/1989

Age:

32Y 3M 29D

Sex: Female

Order Date:

01/02/2022

Time: 16:43

Station: Ward 11C

Order Owner: Kritnarong Kietsiri

### Biochemistry

#### Lipoprotein (a)

Specimen No.22002162-1: Collected 01/02/2022 16:43, Received 01/02/2022 16:44, Plain Blood 5 ml. - (CH) Red Top Tube

Test	Result	Flag	Units	Ref. Range
Lipoprotein (a)	25		mg/dL	(0-30)

Authorised by Kritnarong Kietsiri at 16:45 on 01/02/2022

**Comment:** Test results should always be used in conjunction with the patient's medical history, clinical examination and other findings.**Remark:** Any tests followed by \* symbol represents those with ISO 15189 or ISO 22870 Accreditation

Flag message: (L) means below low normal, (H) means above high normal, c means correction.

(LL) means below a critical low value, (HH) means a critical high value.

Bumrungrad Hospital: 33 Sukhumvit 3, Bangkok 10110, Thailand Tel: +662 0668888 Fax: +662 0115100 [www.bumrungrad.com](http://www.bumrungrad.com)

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### Biochemistry

#### Apolipoprotein A1

Specimen No.22002162-1: Collected 01/02/2022 16:43, Received 01/02/2022 16:44, Plain Blood 5 ml. - (CH) Red Top Tube

Test	Result	Flag	Units	Ref. Range
Apolipoprotein A1	190.0		mg/dL	(101.0-223.0)

Authorised by Kritnarong Kietsiri at 16:45 on 01/02/2022

#### C-Reactive Protein\*(CRP)

Specimen No.22002162-1: Collected 01/02/2022 16:43, Received 01/02/2022 16:44, Plain Blood 5 ml. - (CH) Red Top Tube

Test	Result	Flag	Units	Ref. Range
C Reactive Protein *	0.60	(H)	mg/dL	(0.00-0.50)

Authorised by Kritnarong Kietsiri at 16:45 on 01/02/2022

Comment: Test results should always be used in conjunction with the patient medical history, clinical examination and other findings.

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Flag message such as (L) means below low normal, (H) means above high normal, c means correction.

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### Referral Lab Services

#### Apolipoprotein B (Blood)\*\*

Specimen No.22002162-2: Collected 01/02/2022 16:43, Received 01/02/2022 16:44, Plain Blood 5 ml. - (SO) Red Top Tube

Test	Result Flag	Units	Ref. Range
Apolipoprotein B**	150 (H)	mg/dL	(55-125)
Apolipoprotein B/A1 ratio	0.8		

#### Reference Value: Apolipoprotein B/A1 ratio (mg/dL)

Age	Males	Females
< 24 m	Not established	Not established
2-17 Y	< 0.8	<0.8
> 18 Y	Lower Risk <0.7	Lower Risk <0.6
	Average Risk 0.7-0.9	Average Risk 0.6-0.8
	Higher Risk >0.9	Higher Risk >0.8

#### Interpretation and Limitation:

1. Apolipoprotein B (ApoB) is the main protein in the low-density lipoprotein (LDL). Elevated ApoB levels indicate that there is a higher than normal risk of developing atherosclerotic cardiovascular disease. ApoB may be elevated in many conditions such as overweight, insulin resistance, diabetes, hypothyroidism, pregnancy, coffee consumption etc. Low ApoB levels may be associated with malnutrition, hyperthyroidism, liver cirrhosis, use of certain medications or possibly a rare genetic condition that causes ApoB deficiency.

2. Apolipoprotein A1 (ApoA1) is a protein that constitutes the major components of high density lipoprotein (HDL). A low ApoA1 level may be associated with coronary artery disease, obesity, diabetes, chronic kidney disease, liver disease, smoking, use of certain medications, Tangier disease etc.

3. Elevated ApoB/A1 ratio indicates an increased risk of atherosclerotic cardiovascular disease, independent of LDL and HDL cholesterol concentrations.

4. In rare cases, gammopathy, monoclonal IgM type in particular, may cause unreliable result.

Authorised by Kritnarong Kietsiri at 16:45 on 01/02/2022

**Remark:** Any tests followed by \* symbol represents those with ISO 15189 or ISO 22870 Accreditation, c means correction.

Any tests marked \*\* are sent to referral labs.

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