

# Human Growth Factor Antibody Array (40 Targets) - Quantitative ab197445

[3 Images](#)

### Overview

---

<b>Product name</b>	Human Growth Factor Antibody Array (40 Targets) - Quantitative
<b>Sample type</b>	Serum, Plasma, Other biological fluids, Cell Lysate, Cell culture media, Tissue Lysate
<b>Assay type</b>	Quantitative
<b>Assay time</b>	6h 00m
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Product overview</b>	ab197445 can be used for quantitative measurement of 40 Human Growth Factors. Suitable for serum, plasma, cell culture media, other body fluids, cell and tissue lysates.

Targets names: AR, BDNF, bFGF, BMP-4, BMP-5, BMP-7,  $\beta$ -NGF, EGF, EGF R, EG-VEGF, FGF-4, FGF-7, GDF-15, GDNF, GH, HB-EGF, HGF, IGFBP-1, IGFBP-2, IGFBP-3, IGFBP-4, IGFBP-6, IGF-I, Insulin, MCSF R, NGF R, NT-3, NT-4, OPG, PDGF-AA, PIGF, SCF, SCF R, TGF $\alpha$ , TGF $\beta$ 1, TGF $\beta$ 3, VEGF, VEGF R2, VEGF R3, VEGF-D.

### [Learn more about quantitative antibody arrays](#)

**Notes** Quantitative antibody arrays can be used to quantitate up to 40 cytokines with as little as 50  $\mu$ L of sample. Arrays are available for 400 human and 200 mouse proteins.

Each glass slide is spotted with 16 identical antibody arrays and is provided with a 16 well gasket to allow separate samples to be applied to each array. Each antibody is spotted in quadruplicate in each array. For reproducible quantitation, eight of the arrays are used with a cocktail of protein standards to produce a standard curve. The same 8 standard curve arrays can be used across multiple slides, allowing measurement of 22 experimental samples with 2 slides, 36 with 3 slides etc.

For high through-put, 4 slides can be nested into a tray matching a standard microplate, allowing automated processing with a liquid handling workstation.

Array processing can be completed within one working day (see workflow diagram below) and arrays can be analyzed with a wide number of laser glass slide array / gene microarray scanners. If you don't have a suitable scanner then we recommend our membrane antibody arrays, which can be analyzed with any WB chemiluminescent reader.

The standard is affinity purified.

[Learn more about quantitative antibody arrays](#)

[Learn more about membrane antibody arrays](#)

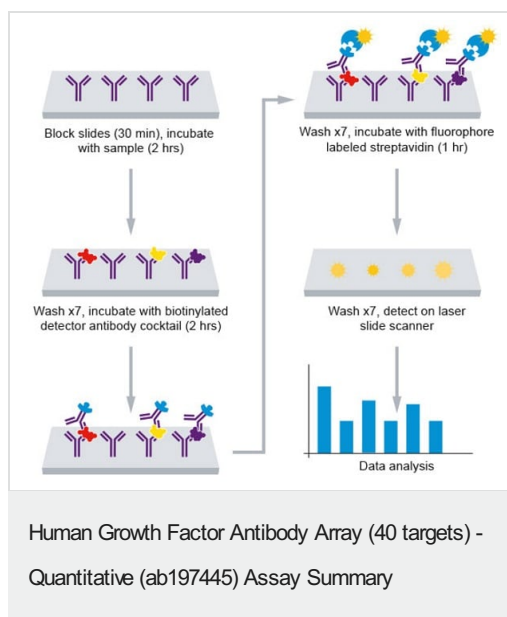
## Properties

### Storage instructions

Store at -20°C. Please refer to protocols.

Components	8 tests	50 tests	22 tests
20X Wash Buffer I	2 x 30ml	6 x 30ml	3 x 30ml
20X Wash Buffer II	1 x 30ml	2 x 30ml	1 x 30ml
Cy3 equivalent dye-conjugated Streptavidin	1 x 5µl	4 x 5µl	2 x 5µl
Human Growth Factor Array (40 T) Biotinylated Antibody Cocktail	1 unit	4 units	2 units
Human Growth Factor Array (40 T) Glass Slide	1 slide	4 slides	2 slides
Human Growth Factor Array (40 T) Lyophilized Cytokine Standard Mix	1 vial	4 vials	2 vials
Sample Diluent	1 x 15ml	2 x 15ml	1 x 15ml
Slide Washer/Dryer (30 mL Centrifuge Tube)	1 unit	2 units	1 unit

## Images

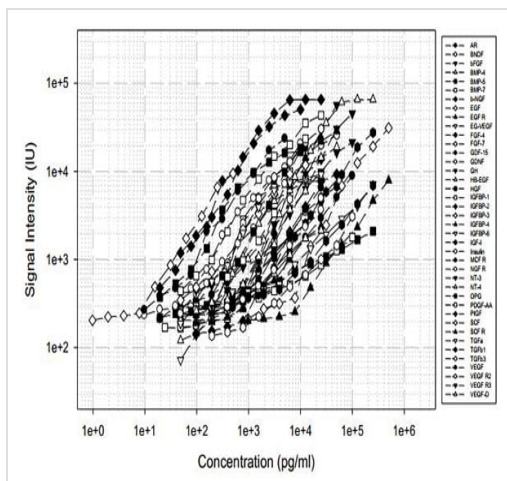


Assay summary for Abcam Human Growth Factor Antibody Array (40 Targets) - Quantitative (ab197445).

POS1	POS2	AR
BDNF	bFGF	BMP-4
BMP-5	BMP-7	$\beta$ -NGF
EGF	EGF R	EG-VEGF
FGF-4	FGF-7	GDF-15
GDNF	GH	HB-EGF
HGF	IGFBP-1	IGFBP-2
IGFBP-3	IGFBP-4	IGFBP-6
IGF-I	Insulin	MCF R
NGF R	NT-3	NT-4
OPG	PDGF-AA	PIGF
SCF	SCF R	TGF $\alpha$
TGF $\beta$ 1	TGF $\beta$ 3	VEGF
VEGF R2	VEGF R3	VEGF-D

Array map for Abcam Human Growth Factor Antibody Array (40 Targets) - Quantitative (ab197445).

Human Growth Factor Antibody Array (40 targets) - Quantitative (ab197445) Array Map



Standard Curve obtained using Abcam Human Growth Factor Antibody Array (40 Targets) - Quantitative (ab197445).

Human Growth Factor Antibody Array (40 targets) - Quantitative (ab197445) Standard Curve

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors