

Total IGFBP-4 (Total and Intact)

Enzyme-Linked Immunoassay Kit



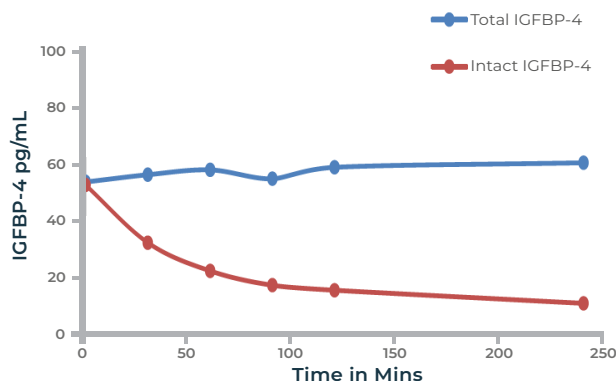
Introduction: Insulin-like growth factor-binding protein-4 is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. The cDNA for human IGFBP-4 encodes a 258-residue protein that is processed, by removal of the signal sequence, to a mature protein of 237 residues (25.6 kDa) with a single asparagine-linked glycosylation site. Although various cell types when in culture secrete both glycosylated (28-29 kDa) and nonglycosylated (24-25 kDa) forms of IGFBP-4, the nonglycosylated is typically the most abundant in normal human blood.

The ratio of Total (AL-126) to Intact IGFBP-4 (AL-128) concentration measured in individual subject over time will help normalize the IGFBP-4 variability between subjects and also increase the detection rate of increased PAPP-A activity in MI subjects. The immunoassay methods designed for the measurement of total and Intact IGFBP-4 in patient samples could be of practical value for the diagnosis or prediction of various pathologies including ACS and cancer.

ANSH LABS ADVANTAGES

Accurate

IGFBP-4 was incubated with active PAPP-A for up to six hours. Reaction mixture were collected and measured in Intact and Total IGFBP-4. ELISA assay at six different time points are shown. No significant changes were observed in the Total IGFBP-4 concentration.



Specific

The Total IGFBP-4 assay's capture and detection antibodies bind to the C terminal of the IGFBP-4 molecule. The Intact IGFBP-4 assay's antibody pair does not detect fragments. The capture monoclonal antibody binds to the N terminal whereas detection antibody binds to C terminal of the IGFBP-4 molecule. Closely related analytes when tested in the assay at 1000 ng/mL did not show any detectable cross reactivity.

Simple extraction procedure

Three-step sandwich assay with no sample preparation.

The total IGFBP-4 is sensitive to 4.73 ng/mL with an analytical measurable range of 50-702 ng/mL. The intact IGFBP-4 is sensitive to 0.669 ng/mL with an analytical measurable range of 1.7-75 ng/mL

Long shelf-life

24 months from the date of manufacture; minimizing assay lot changes for long term studies.

Sample Name	% Cross-reactivity
IGF-I	ND
IGFBP-2	ND
IGFBP-3	ND
IGFBP-3/IGF-I Complex	ND
IGFBP-5	ND
Rat IGF-I	ND
IGF-II	ND

Total IGFBP-4

Product Listing

IGFBP-4 is a useful research tool for studies related to:

- Diabetes
- Oncology
- Hypertension
- Osteoarthritis
- Cardiomyopathy
- Acute Coronary Syndrome
- Aging and Longevity Studies
- Growth Hormone Deficiency

ELISA 96 Wells

IGFBP-4 (Total)

Method	Quantitative 3-step sandwich type immunoassay
Incubation Time	Total 2.5 hour incubation at room temperature
Approximate Dynamic Range	6 points, 50-702 ng/mL
Sensitivity	4.735 ng/mL
Sample Size / Type	25 µL / Serum
Shelf-life	24 months
Catalog Number	AL-126

IGFBP-4 (Intact)

Method	Quantitative 3-step sandwich type immunoassay
Incubation Time	Total 2.5 hour incubation at room temperature
Approximate Dynamic Range	6 points, 1.5-96.16 ng/mL
Sensitivity	0.669 ng/mL
Sample Size / Type	25 µL / Serum
Shelf-life	24 months
Catalog Number	AL-128

Related Assays

Stanniocalcin 2	96-Well ELISA	AL-143
PAPP-A2	96-Well ELISA	AL-109
IGF-I Free	96-Well ELISA	AL-122
IGF-I Total	96-Well ELISA	AL-121 [FDA, CE]
IGF-II	96-Well ELISA	AL-131
IGFBP-3 Intact	96-Well ELISA	AL-149
IGFBP-3 Total	96-Well ELISA	AL-120
IGFBP-5	96-Well ELISA	AL-127

*Unless otherwise stated here, in our catalog, or other product documentation, these kits are intended for research use only and not for in vitro diagnostic purposes or therapeutic uses.

POS.126.1222.USINTL

Reproductive Function

Activin A [CE]
Activin B
Activin AB
AFP
AMH [CE]
AMH, Dried Blood Spot [CE]
AMH (PCOCheck™) [CE]
picoAMH (MenoCheck®) [FDA, CE]
BMP-15
Estrilol [FDA, CE]
Follistatin
Follistatin Like-3 (FSTL-3)
FSH [FDA]
FSH, Dried Blood Spot
GDF-9
GDF-9/BMP-15 Complex
GDF-15 (Total)
GDF-15 (H-Specific)
Inhibin, Total
Inhibin A [FDA, CE]
picoInhibin A
Inhibin A (OMQCheck™)
Inhibin B [CE]
Inhibin B, Ultra-Sensitive [CE]
LH [FDA]
LH, Dried Blood Spot
PAPP-A2 [CE]
picoPAPP-A [CE]
PLGF [CE]
Prolactin [FDA, CE]
Prolactin, Dried Blood Spot [CE]
Testosterone

Specialty Controls

AnshCheck AMH Tri-Level Controls [FDA, CE]
AnshCheck Inhibin B Tri-Level Controls
AnshCheck Maternal Screening Bi-Level Controls [FDA, CE]

Metabolism

C-Peptide of Insulin
Glicentin
GLP-1
GLP-2
Glucagon [FDA, CE]
Major Proglucagon Fragment (MPGF)
Oxyntomodulin
Proglucagon

Growth Factors

IGF-I, Free
IGF-I, Total [FDA, CE]
IGF-II
IGFBP-2
IGFBP-3, Intact
IGFBP-3, Total
IGFBP-4, Intact
IGFBP-4, Total
IGFBP-5
picolL-6
Stanniocalcin 2

Species Specific Assays

Activin B - Mouse
AMH - Bovine, Canine, Equine, Mouse, Ovine, Porcine, Rat
IGF-I, Free - Mouse, Rat
IGF-I, Total - Mouse, Rat
Inhibin A - Canine, Equine, Rodent
Inhibin B - Canine, Equine, Rodent
Oxyntomodulin - Mouse, Rat
PAPP-A - Mouse

Neuronal Disorders

MBP

**Unless stated otherwise, products are for research use only.

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ISO 13485:2016

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