

IGFBP-3 (Total and Intact)

Enzyme-Linked Immunoassay Kit



Introduction: IGFs in circulation are mainly bound by IGFBP-3. Proteolysis of IGFBP-3 is necessary to release IGFs, which in the unbound (bioactive) state interact with their receptors to regulate cell growth and differentiation pathways. Intact and truncated IGFBP-3 may have distinct biological and clinical relevance. It has been reported that intact and total IGFBP-3 show different associations with breast cancer risk factors. Elevated intact IGFBP-3 levels in circulation were associated with increased risk of prostate cancer-specific death and intact IGFBP-3 levels were found to be significantly low in patients with inflammatory bowel disease. An accurate assessment of intact versus total IGFBP-3 could be informative in understanding IGFBP-3 regulation and function in various physiological and disease states.

The Ansh Labs Total and intact IGFBP-3 assay uses an acidification and neutralization method to dissociate IGFBP-3 from all the binding subunits. Total IGFBP-3 levels are quantified in the extracted samples using a highly sensitive and specific total IGFBP-3 ELISA.

ANSH LABS ADVANTAGES

Accurate

The Calibrator F and two serum samples were serially diluted in Calibrator A. The diluted serum samples were treated as mentioned in the sample preparation section and assayed. The % recovery is shown in the table.

Sample	Dilution Factor	Expected Conc. (ng/mL)	Observed Conc. (ng/mL)	% Recovery
1	Neat	169.728	NA	NA
	1:2	84.864	94.778	112
	1:4	42.432	47.687	112
	1:8	21.216	24.789	117
2	Neat	127.916	NA	NA
	1:2	63.958	62.819	98
	1:4	31.979	32.523	102
	1:8	15.990	14.967	94
Calibrator F	Neat	216.00	NA	NA
	1:2	108.00	102.737	95
	1:4	54.00	49.972	93
	1:8	27.00	24.338	90
	1:16	13.50	12.335	91
	1:32	6.75	6.143	91

Simple extraction procedure

Acidification and neutralization method to dissociate IGFBP-3 from the binding subunits.

The Total IGFBP-3 assay is sensitive to 0.3 ng/mL with an analytical measurable range of 7.5-216 ng/mL. The Intact IGFBP-3 assay is sensitive to 1.37 ng/mL with an analytical measurable range of 1.7-75 ng/mL.

Kit includes all reagents needed to run a 96-well plate, shipped at ambient temperatures and stored at 2-8°C.

No need to buy or make additional reagents.

Long shelf-life

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

Specific

The monoclonal antibody pair used in the assay detects IGFBP-3. Other related analytes at 1000 ng/mL did not show any cross-reaction.

Sample Name	% Cross-reactivity
IGF-I	ND
IGFBP-2	ND
IGFBP-4	ND
IGFBP-5	ND
Rat IGF-I	ND
IGF-II	ND

IGFBP-3

Product Listing

IGFBP-3 is a useful research tool for studies related to:

- Diabetes
- Oncology
- Hypertension
- Osteoarthritis
- Cardiomyopathy
- Diminished longevity
- Acute Coronary Syndrome

ELISA 96 Wells

IGFBP-3 (Total)

Method	Quantitative 2-step sandwich type immunoassay
Incubation Time	Total 1.5 hour incubation at room temperature
Approximate Dynamic Range	6 points, 7.5-216 ng/mL
Sensitivity	0.3 ng/mL
Sample Size / Type	10 µL / Serum
Shelf-life	24 months
Catalog Number	AL-120

IGFBP-3 (Intact)

Method	Quantitative 2-step sandwich type immunoassay
Incubation Time	Total 1.5 hour incubation at room temperature
Approximate Dynamic Range	6 points, 1.7-75 ng/mL
Sensitivity	1.37 ng/mL
Sample Size / Type	10 µL / Serum
Shelf-life	24 months
Catalog Number	AL-149

Related Assays

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-4	96-Well ELISA	AL-126
IGFBP-4 Intact	96-Well ELISA	AL-128
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.120.1224.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
Estriol [FDA, CE]
Follistatin
Follistatin Like-3
FSH
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
LH, Dried Blood Spot
PAPP-A [CE]
PAPP-A2 [CE]
picoPAPP-A [CE]
PLGF [CE]
Prolactin [FDA, CE]
Prolactin, Dried Blood Spot [CE]

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
GIP, Intact
GIP, Total
Glicentin
GLP-1
GLP-2
Glucagon [FDA, CE]
Major Proglucagon Fragment
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
picoL-6
Stanniocalcin 2

Species Specific Assays

Activin B: Mouse, Rat
AMH: Bovine, Canine, Equine, Feline, Mouse, Ovine, Porcine, Primate, Rat
GDF-15: Bovine
IGF-I, Free: Mouse, Rat
IGF-I, Total: Mouse, Rat
IGFBP-4, Intact : Mouse, Rat
IGFBP-4, Total: Mouse, Rat
Inhibin A: Canine, Equine, Rodent
Inhibin B: Canine, Equine, Mouse
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

Ansh Labs is ISO certified for the design, development, manufacturing, services and distribution of reagents/ immunoassay kits for research and in vitro diagnostic applications.