

# IGFs and Binding Proteins

Measure IGFs and IGFBPs in all their forms.  
Dig deeper with Ansh Labs' Growth Factor immunoassays.

## Ansh Labs Advantage

- Quantify total or intact IGFBPs
- mAbs developed and screened in-house
- Distinguish bioactive and bound IGF-I
- Wide analytical measurable ranges
- Picogram level sensitivity
- Calibrated to WHO standard preparations
- Long shelf-life

## Sample Types

- Serum
- Plasma
- Saliva
- Urine
- Follicular fluid

## Immunoassays

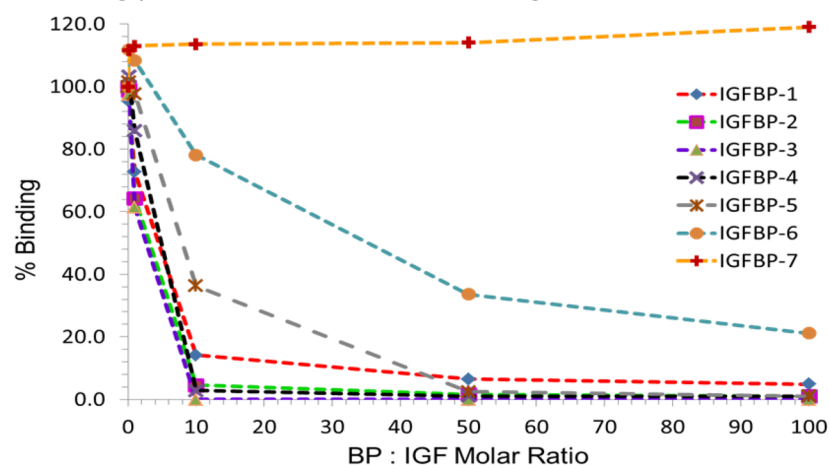
	Dynamic Range (ng/ml)	Analytical Sensitivity (ng/ml)
Bioactive IGF-I (AL-122)	0.48 - 32.2	0.025
Total IGF-I (AL-121)	0.48 - 32.2	0.025
Total IGF-II (AL-131)	20 - 1239	1.33
IGFBP-2 (AL-140)	0.45 - 16	0.08
Intact IGFBP-3 (AL-149)	3.5 - 117	1.37
Total IGFBP-3 (AL-120)	7.5 - 216	0.3
Intact IGFBP-4 (AL-128)	1.5 - 96.16	0.67
Total IGFBP-4 (AL-126)	50 - 702.2	4.7
Total IGFBP-5 (AL-127)	15.3 - 902.3	4.4
PAPP-A (AL-106)	40 - 7500	10
picoPAPP-A (AL-101)	0.1 - 10	0.037
PAPPA2 (AL-109)	0.19 - 16	0.071
Stanniocalcin-2 (AL-143)	0.85 - 55	0.033

## Research Areas

- Growth and development
- Diabetes
- Cancer
- Cardiac disease
- Neurological disorders
- Pregnancy complications

## Accurate

Effect of IGF binding protein addition to rhIGF-I at 5 µg/L in Bioactive IGF-I ELISA



## Specific

Protein ELISA	% Cross-Reactivity						
	IGF-I 1 µg/mL	IGF-II 1 µg/mL	IGFBP-2 1 µg/mL	IGFBP-3 1 µg/mL	IGFBP-4 1 µg/mL	IGFBP-5 1 µg/mL	IGF-IGFBP-3 1 µg/mL
Bioactive IGF-I	100%	ND	ND	ND	ND	ND	<0.42%
Total IGF-I	100%	ND	ND	ND	ND	ND	100
Total IGF-II	ND	100%	ND	ND	ND	ND	ND
IGFBP-2	ND	ND	100%	ND	ND	ND	ND
Intact IGFBP-3	ND	ND	ND	100%	ND	ND	100%
Total IGFBP-3	ND	ND	ND	100%	ND	ND	100%
Intact BP-4	ND	ND	ND	ND	100%	ND	ND
Total BP-4	ND	ND	ND	ND	100%	ND	ND
Total BP-5	ND	ND	ND	ND	ND	100%	ND

ND = Non-Detectable

## Reliable

Measurement of active PAPP-A cleaved IGFBP-4 fragments in IGFBP-4 ELISAs

