

The Quick Reference Matrix shown below is intended to give the reader a convenient overview of the immunoassays that have been tested for various animal applications.

- V** - Validated - Data available upon request confirming the suitability of the assay for a particular animal species.
- P** - Published - Use of assay for sample analysis for a particular species has been published in a scientific journal.
- R** - Reported - Reported by Client(s) as suitable for sample analysis for a particular species. Validation not confirmed by Ansh Labs.

Immunoassays		Rattus	Murine	Primate	Porcine	Ovine	Caprine	Bovine	Equine	Canine	Feline	Other
Activin A	ELISA, AL-110		R									
Activin AB	ELISA, AL-150		V			V	V		V	V		Rabbit
Activin B	ELISA, AL-150		V			V	V	V	V	V		Fish, Rabbit
Activin B, Mouse	ELISA, AL-156		V									
AMH	ELISA, AL-105			V								Rhesus, Cynomolgus, Vervet, Squirrel Monkey
AMH	CLIA, AL-205			V								
AMH (pico)	ELISA, AL-124			V								
AMH (Blood Spot)	ELISA, AL-129			V								
AMH, Bovine	ELISA, AL-114						V	V, P, R				
AMH, Canine	ELISA, AL-116									V, P	V	
AMH, Caprine	ELISA, AL-154						V	V				
AMH, Equine	ELISA, AL-115					V			V			White Rhino, Bottlenose Dolphin
AMH, Ovine	ELISA, AL-155					V				V		
AMH, Porcine	ELISA, AL-169				V							
AMH, Rat/Mouse	ELISA, AL-113	V, P	V, P		V							Hamster, Alpacas, White-tailed Deer
C-Peptide of Insulin	ELISA, AL-151						V	V		V		Rabbit
Follistatin	ELISA, AL-117								V			
FSH	ELISA, AL-186					V		V				Squirrel Monkey
Glicentin	ELISA, AL-185				V	V	V	V		V		Squirrel Monkey
Glucagon	ELISA, AL-157		V									
IGF-I (Total)	ELISA, AL-121				V							
IGF-I (Total), Rat/Mouse	ELISA, AL-137	V	V									Alpacas
IGF-I (Free), Rat/Mouse	ELISA, AL-136	V	V									
IGF-II	ELISA, AL-131	V	V									

*(continued on back)*



The Difference is in the Results. **Go Ahead. Test Us!**

**NOTE** - Blank cells do not indicate that the assay does not work, it only indicates that the studies have not been done. If you wish to collaborate, please email us.

Immunoassays (cont')		Rattus	Murine	Primate	Porcine	Ovine	Caprine	Bovine	Equine	Canine	Feline	Other
IGFBP-4 (Total)	ELISA, AL-126	V					V	V	V			
IGFBP-4 (Intact)	ELISA, AL-128	V					V	V	V			
IGFBP-5	ELISA, AL-127							V	V	V		
Inhibin A	ELISA, AL-123		P									
Inhibin A (Multi-Species)	ELISA, AL-161		V					V	V	V		
Inhibin B	ELISA, AL-107		V, P					V	V	V		
Inhibin B (Multi-Species)	ELISA, AL-163		V					V	V	V		
LH	ELISA, AL-188		V					V				
Myelin Basic Protein	ELISA, AL-108			R								
Oxyntomodulin	ELISA, AL-139		V	V		V	V	V	V	V		Rabbit, Squirrel
PAPP-A, Mouse	ELISA, AL-158		V			V	V	V	V	V		Rabbit

## Validating Immunoassays

Validation of an immunoassay for a particular animal specimen should be undertaken prior to analysis of experimental animal samples. It is vital that the validation procedure be completed with the same specimen type as that used or planned in the experiment.

The suitability of an immunoassay for a particular animal specimen will depend upon (1) the compatibility between the assay matrix and that of the specimen type; (2) the cross-reactivity or the analyte with the antibody components of the assay; (3) the sensitivity of the assay. In some cases, a kit may perform satisfactorily without modification, while others may require modest or extensive modification of validation with an appropriate calibrator for optimal performance. Ansh Labs evaluates species cross reactivity by observing linear and parallel dilution. Investigators should use a neat (pure sample) and conduct serial dilutions using the "A" or zero Standard of the kit as the diluent. The results should be graphed with the dilution and standard curve appearing on the same set of axes.

For more details on how to validate an assay for various species, please see the "Resources" link on our website for the guide "Assay Validation for Animals". It can also be accessed directly at <https://www.anshlabs.com/resources/assay-validation-for-animals/>

## Bovine AMH Testing

In Bovine or other production animals, measuring AMH will:

- Allow the selection of the best heifers that will produce the highest number of transferable embryos
- Identify high producing embryo transfer donors before a superovulation regimen
- Help monitor the fertility stayability potential of cows
- Identify cows with higher first-conception service rates and fewer service requirements

### Breeds Tested:

Bos taurus (fullblood)

- Jersey
- Hereford
- Holstein
- Angus
- Red Angus
- Black Angus

Bos indicus (fullblood)

- Brahman

- Gyr
- Nelore

Bubalus bubalis (fullblood)

- Murrah

Mixed (composite)

- Beefmaster
- Brangus
- Holstein-Jersey
- Braford
- Bonsmara
- Wagyu



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Ansh Labs is ISO 13485 certified for design, development, manufacturing, services and distribution of reagents/immunoassay kits for research and *in vitro* diagnostic applications.