

Datasheet: 7010-2650

Description:	SHEEP ANTI 17-BETA-ESTRADIOL
Specificity:	17-BETA-ESTRADIOL
Other names:	E2, OESTRADIOL
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.25 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	■			1/5000 - 1/40,000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species	Broad
Species Cross Reactivity	Reacts with: Sturgeon, Anole lizard, Sunfish, Horned lizard, Agamid lizard N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	5.0 mg/ml
Immunogen	Estradiol conjugated to bovine serum albumin

Specificity

Sheep anti 17-beta-estradiol polyclonal antibody recognizes 17 β -estradiol, a mammalian estrogenic hormone. 17 β -estradiol is produced in the ovaries, placenta and testis and has a role in normal sexual development and the regulation of the menstrual cycle.

The following cross reactivities of Sheep anti 17-beta-estradiol have been observed:

17-beta Oestradiol 100%
Oestrone 14%
Oestriol 5%

Aldosterone, Cortisol, Corticosterone, DHEA, Deoxycorticosterone, Pregnenolone, Progesterone, 17OH-P and Testosterone all <0.01%

References

1. Qu, Q.Z. *et al.* (2010) The relationships between gonad development and sex steroid levels at different ages in *Acipenser schrenckii*. [Journal of Applied Ichthyology 26: 1-5.](#)
2. Lovern, M.B. and Wade, J. (2003) Sex steroids in green anoles (*Anolis carolinensis*): uncoupled maternal plasma and yolking follicle concentrations, potential embryonic steroidogenesis, and evolutionary implications. [Gen Comp Endocrinol. 134: 109-15.](#)
3. Magee, S.E. *et al.* (2006) Plasma levels of androgens and cortisol in relation to breeding behavior in parental male bluegill sunfish, *Lepomis macrochirus*. *Horm Behav.* 49: 598-609.
4. Warner, D.A. *et al.* (2007) Maternal nutrition affects reproductive output and sex allocation in a lizard with environmental sex determination. [Proc Biol Sci. 274: 883-90.](#)
5. Wack, C.L. *et al.* (2008) Effects of sex, age, and season on plasma steroids in free-ranging Texas horned lizards (*Phrynosoma cornutum*). [Gen Comp Endocrinol. 155:589-96.](#)
6. Leary, C.J. *et al.* (2018) Assessing the links among environmental contaminants, endocrinology, and parasites to understand amphibian declines in montane regions of Costa Rica. [PLoS One. 13 \(1\): e0191183.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

Donkey Anti Sheep IgG (STAR88...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[FITC](#), [HRP](#)

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