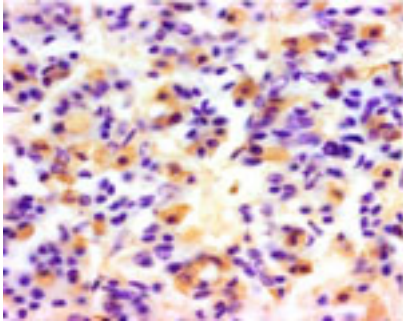


Guinea pig antibody to ovine luteinizing hormone: whole serum

Catalogue No.:	GP-036-50
Description:	Luteinizing hormone promotes spermatogenesis and ovulation by stimulating the testes and ovaries to synthesize steroids. It exists as a heterodimer of a common alpha chain and a unique beta chain which confers biological specificity to thyrotropin, lutropin, follitropin, and gonatropin.
Batch No.:	See product label
Unit size:	50 uL
Antigen:	Purified ovine LH subunit beta was used as the immunogen.
Other Names:	Lutropin subunit beta [Precursor]; Luteinizing hormone subunit beta; LSH-beta; LSH-B; LH-B; Lutropin beta chain; Interstitial cell-stimulating hormone
Accession:	LSHB_SHEEP
Produced in:	Guinea pig
Purity:	Neat serum.
Applications:	IHC. A concentration of 1 in 3000 is recommended for IHC. IHC performed in sheep pituitary demonstrates intense staining of cells. No staining is evident when the primary antibody is pre-absorbed with 0.5 mg/mL of LH. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	Specificity was demonstrated by immunohistochemistry.
Cross-reactivity:	This antibody is known to react with sheep. Other species have not yet been tested
Form:	Lyophilised
Reconstitution:	Reconstitute in 50 uL sterile water. Centrifuge to remove any insoluble material.
Storage:	It is recommended that a thawed sample is stored at 2-8C for no longer than 2 weeks. Allocation of appropriate anti-bacterial agent can increase shelf life by several weeks. Diluted serum should be prepared as required. Long term stability requires storage, preferably in small aliquots at -20C or lower. Glycerol (1:1) can be added to neat serum for additional stability if intended use does not prevent this.
Expiry Date:	12 months upon reconstitution.
Specific References:	Sanchez NS, Quinn KE, Ashley AK, Ashley RL (2017). In the ovine pituitary, CXCR4 is localized in gonadotropes and somatotropes and increases with elevated serum progesterone. <i>Domest Anim Endocrinol</i> . In press.
References:	Clarke IJ, Tobin VA, Pompolo S, Pereira A (2005). Effects of changing Gonadotropin-releasing hormone pulse frequency and estrogen treatment on levels of estradiol receptor –alpha and induction of Fos and phosphorylated cyclic adenosine monophosphate response element binding protein in pituitary gonadotropes: studies in hypothalamo-pituitary disconnected ewes. <i>Endocrinology</i> 146 (3) pp. 1128-1137.

FOR RESEARCH USE ONLY

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The cryostat section of the sheep pituitary was incubated in guinea pig polyclonal antibodies to ovine luteinizing hormone at the dilution of 1:1000 overnight followed by incubation with biotinylated secondary antibodies. Cell bodies and nerve terminals in the sheep brain are intensely stained (brown). This figure shows staining of cells when no pre-absorption is performed.

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