



Goat 4MID® Kit (Ref. 4VDX-18K9) A Functional Assay of Sperm Quality and Male Fertility

Goat 4MID® Kit Main Advantages

- Based on a **functional sperm parameter** called proAKAP4
- Only a **few microliters required**
- Works with **fresh, chilled** or **frozen semen** in extenders
- **Easy to use**, robust and cost-saving testing kit

Goat 4MID® Kit Description

The **Goat 4MID® Kit (Ref. 4VDX-18K9)** is a robust ELISA kit that contains all reagents and buffers required for the quantification of proAKAP4 protein in all types of goat semen samples.



Product reference

4VDX-18K9

Specificity

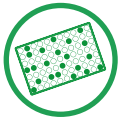
Goat proAKAP4

Analytical range

0 - 150 ng

Number of analysis

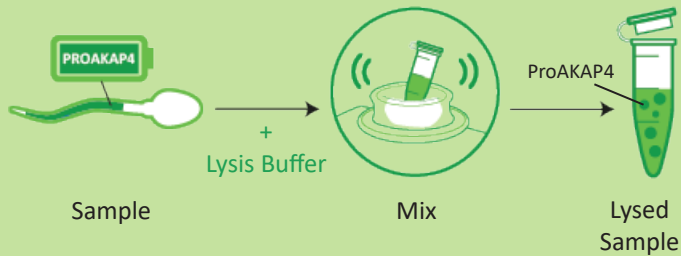
1 to 88 samples



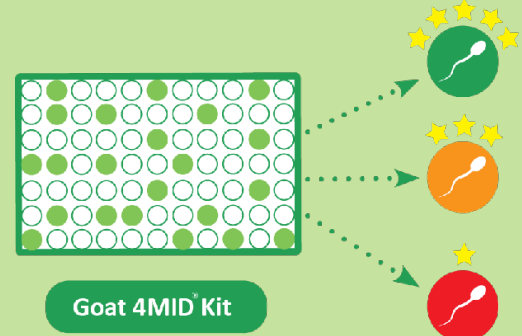
Goat 4MID® Kit (4VDX-18K9)

An Innovative Approach to Assess Sperm Quality and Fertility

Step one: Release of ProAKAP4



Step two: Quantification of ProAKAP4



Applications of the Goat 4MID® Kit:

- Semen quality assessments
- Qualification of each ejaculate / each straw
- Functional indicator of male fertility
- Selection of sperm with long-lasting motility



Background: ProAKAP4 is a Functional Marker of Sperm Motility and Male Fertility

ProAKAP4 is the **precursor of AKAP4** that is a structural protein playing a key role in **sperm motility, capacitation and fertility**. Spermatozoa **without proAKAP4** are abnormal, immobile and **infertile**. The concentration of the proAKAP4 marker is a **good indicator of sperm quality and fertility** and of how the spermatozoa will stay motile and fertile over time.



Main References

- Carracedo et al. (2020) Animal Reproduction Science. Vol. 220:106448
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Sergeant et al. (2019) Dairy & Veterinary Sciences. Vol. 11(1):1-6
Fang et al. (2019) Developmental Biology. Vol. 1606(19):30107-1017
Delehedde et al. (2018) Animal Reproduction Science. Vol. 194:24
Sergeant et al. (2016) Animal Reproduction Science. Vol. 169:125-126