



## Pig 4MID<sup>®</sup> Kit (Ref. 4VDX-18K2) A Functional Assay of Sperm Quality and Male Fertility

### Pig 4MID<sup>®</sup> 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

### Pig 4MID<sup>®</sup> Kit Description

The **Pig 4MID<sup>®</sup> Kit (Ref. 4VDX-18K2)** is a robust ELISA kit that contains all reagents and buffers required for the quantification of proAKAP4 protein in all types of pig semen samples.



**Product reference**

4VDX-18K2

**Specificity**

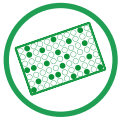
Pig proAKAP4

**Analytical range**

0 - 150 ng

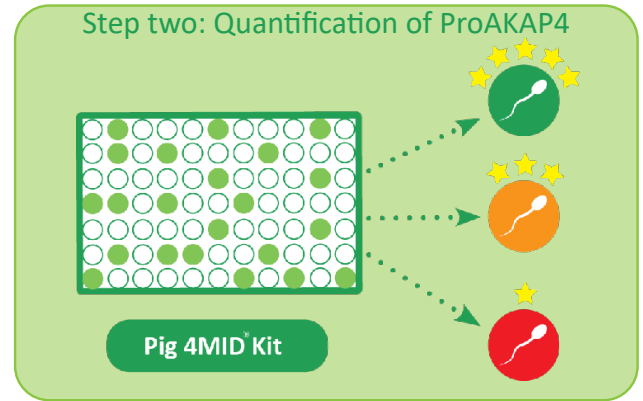
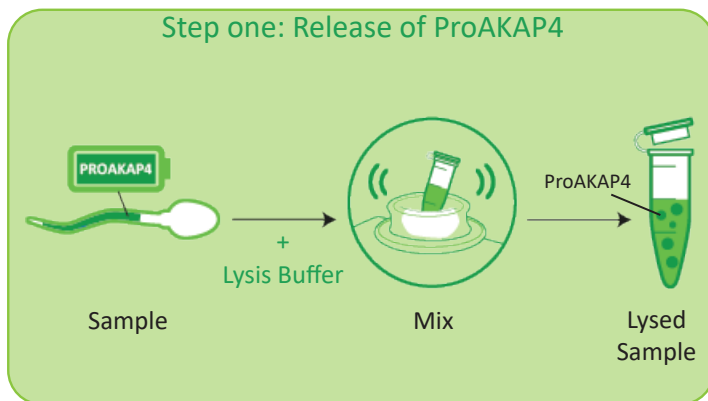
**Number of analysis**

1 to 88 samples



## Pig 4MID<sup>®</sup> Kit (4VDX-18K2)

An Innovative Approach to Assess Sperm Quality and Fertility



### Applications of the Pig 4MID<sup>®</sup> Kit:

- Semen quality assessments
- Qualification of each ejaculate / each dose
- Functional indicator of male fertility
- Monitoring tool of boar career
- 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  
Sergeant et al. (2020) Andrology. Vol. 8:44-45  
Sergeant et al. (2019) Dairy & Veterinary Sciences. Vol. 11(1):1-6  
Fang et al. (2019) Developmental Biology. Vol. 1606(19):30107-1017  
Nixon et al. (2019) Front Cell Dev Biol 7(319): 1-18  
Teijeiro et al. (2012) Reproduction. Vol. 143:773-785  
Teijeiro et al. (2011) Biological Research. Vol. 44:329-337