







# Horse 4MID® Kit (Ref. 4VDX-18K3) A Functional Assay of Sperm Quality and Male Fertility

### **Horse 4MID® Kit Main Advantages**

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

### **Horse 4MID® Kit Description**

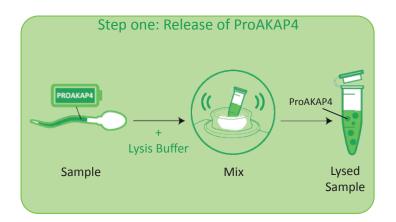
The Horse 4MID<sup>®</sup>Kit (Ref. 4VDX-18K3) is a robust ELISA kit that contains all reagents and buffers required for the quantification of proAKAP4 protein in all types of horse semen samples.

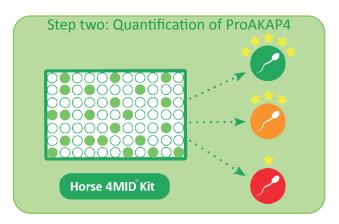


Product reference	4VDX-18K3
Specificity	Horse proAKAP4
Analytical range	0 - 150 ng
Number of analysis	1 to 88 samples



## Horse 4MID® Kit (4VDX-18K3) An Innovative Approach to Assess Sperm Quality





#### **Applications of the Horse 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 as 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 concentrations of proAKAP4 marker are **good indicators of sperm quality and fertility** and of how the spermatozoa will stay motile and fertile overtimes.



#### **Main References**

Blommaert et al. (2021) Cryobiology. In press Griffin et al. (2020) Reproduction. Vol. 20: 0284 Nixon et al. (2019) Front. Cell Dev. Biol. Vol. 7(319):1-18 Blommaert et al. (2019) Theriogenology. Vol. 131:52-60 Sergeant et al. (2019) Dairy Vet. Sci. J. Vol. 11(1):803-811 Blommaert et al. (2019) Rev. Bras. Reprod. Anim. Vol. 43(2):585 Blommaert at al. (2018) J. of Equine Vet. Science. Vol. 66:43

