

Dog 4MID[®] Kit (Ref. 4VDX-18K5) A Functional Assay of Sperm Quality and Male Fertility

Dog 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

Dog 4MID[®] Kit Description

The **Dog 4MID[®] Kit (Ref. 4VDX-18K5)** is a robust ELISA kit that contains all reagents and buffers required for the quantification of proAKAP4 protein in all types of dog semen samples.



Product reference

4VDX-18K5

Specificity

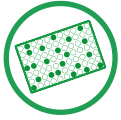
Dog proAKAP4

Analytical range

0 - 150 ng

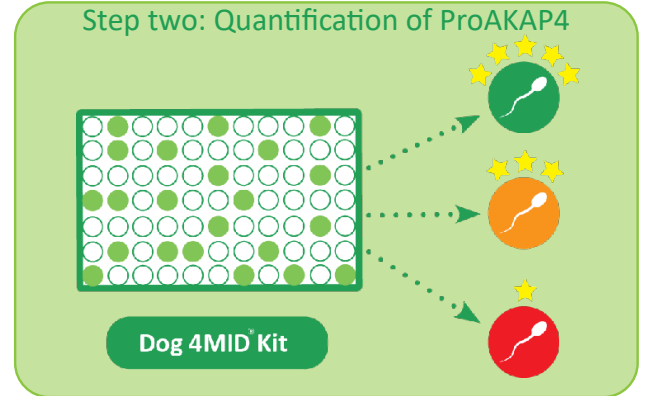
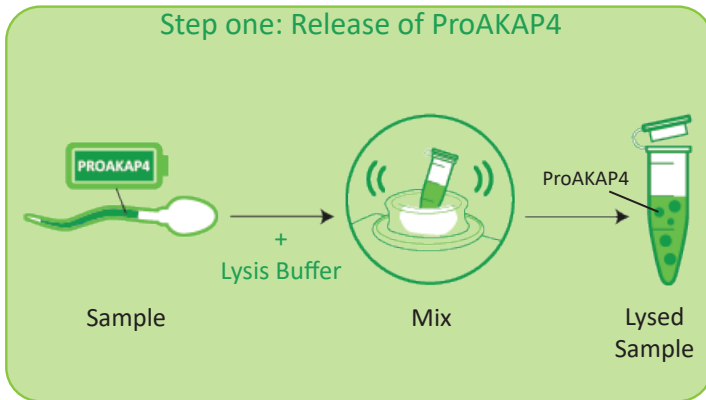
Number of analysis

1 to 88 samples



Dog 4MID[®] Kit (4VDX-18K5)

An Innovative Approach to Assess Sperm Quality



Applications of the Dog 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 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
Langlade et al. (2020) Biopreserv. Biobank. Vol. 18(5):409-414
LeCouazer et al. (2019) Reproduction in Domestic Animals. Vol. 54(2):91-92
Griffin et al. (2020) Reproduction. Vol. 20:0284
Nixon et al. (2019) Front Cell Dev Biol. Vol. 0(319):1-18
Blommaert et al. (2019) Theriogenology. Vol. 131:52-60
Sergeant et al. (2019) Dairy Vet. Sci. J. 11(1): 803-811