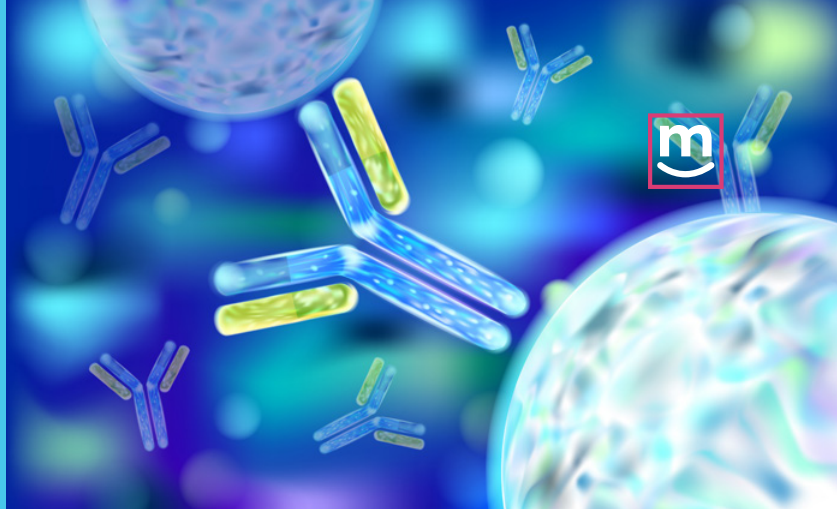
K-Block™

100% Animal-free HAMA/RF/HA Blocker

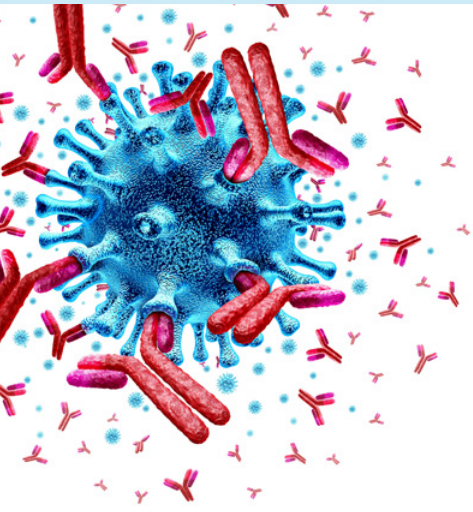


In double mouse monoclonal assays, interference blockers are required to remove cross-reactive HAMA (Human anti-mouse antibodies) and RF (rheumatoid factor). These blockers are usually produced using animal sources - Meridian's new blocker, K-Block™ is 100% animal-free.

Meridian's newest solution, K-Block™ is a HAMA/RF/HA interference blocker that is 100% animal-free and designed for ELISA, chemiluminescent and lateral flow immunoassays. It is the first commercially available, animal-free heterophilic interference blocker that has proven high performance against similar animal-based blockers.

K-Block™

Animal-free HAMA/RF/HA Blocker
Cat# **BN1200**



WHAT IS HAMA INTERFERENCE?

HAMA (Human anti-mouse antibodies), heterophilic antibodies (HA) and rheumatic factor (RF) can cause significant interference in any immunoassay leading to false-positive or false-negative results. Up to 10% of test samples contain HAMA/HA/RF antibodies, and their characteristics vary greatly with respect to isotype, specificity, and concentration range. Universal blockers provide broad coverage against all types of heterophilic interference and improve assay accuracy.

WHY GO ANIMAL FREE?

Enhanced specificity:

K-Block™ offers improved specificity over traditional blockers, as it will not cross-react with animal-sourced antigens and antibodies in the assay. The potential for non-specific binding is reduced and the signal-to-background is improved.

Consistent performance:

Animal-derived reagents can have batch-to-batch variability, impacting assay consistency. In contrast, animal-free reagents are more chemically well-defined and contain a finite number of traceable ingredients, resulting in regulatory advantages and increased speed-to-market.

Ethical considerations:

Using an animal protein-free blocker aligns with the ethical concerns related to using animals in science.

Regulatory compliance: Regulations such as the European Union (EU) Directive 2010/63/EU, are encouraging the use of animal-free reagents.

Reduced risk of contamination: Animal-derived components used in traditional blockers can carry contaminants, such as viruses, prions, and endotoxins, that can affect the accuracy of an assay. K-Block™ eliminates this risk as it is animal-free.

Advion Interchim scientific

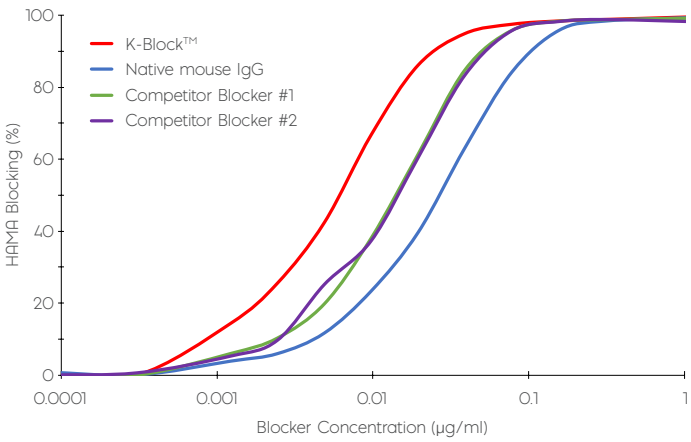
meridian BIOSCIENCE®
LIFE DISCOVERED. LIFE DIAGNOSED.

www.meridianbioscience.com/lifescience

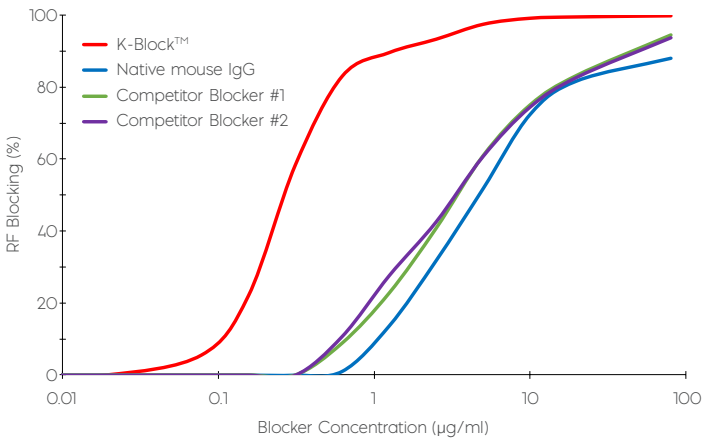
Performance Data

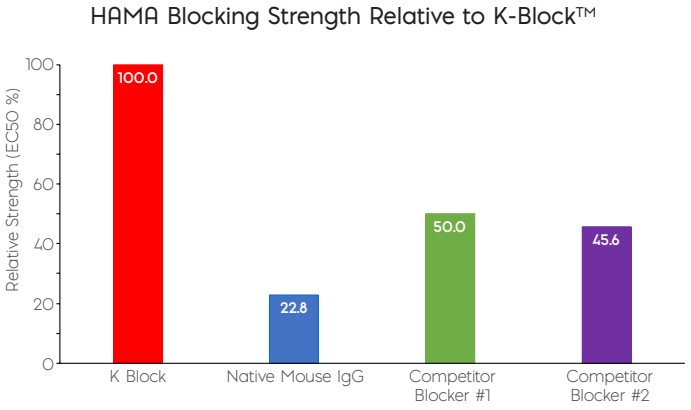
K-Block™ demonstrates superior HAMA and RF blocking over Mouse IgG and other commercial HAMA blockers.

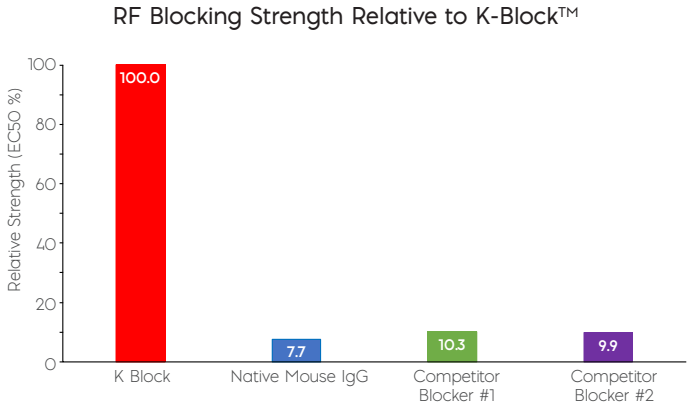
A.



B.







A double mouse monoclonal sandwich assay was used to compare the performance of Meridian Bioscience's K-Block™ (100% animal free, recombinant blocker, MLS Cat No. BN1200) against serum-derived purified native mouse IgG and two competitor's recombinant mouse IgG HAMA blockers. (A) Human HAMA-positive or (B) RF-positive serum was preincubated with the individual blockers for 20 minutes at room temperature. Blocker concentrations ranged from 0.0001-1.25 µg/mL for the HAMA assay and 0.01-80 µg/mL for the RF assay. The effectiveness of each blocker was determined by comparing the relative suppression of the HAMA signal to the signal of samples with no blocker. The results demonstrate that at higher concentrations K-Block is as effective as the other blockers and at lower concentrations, K-Block was more effective than native mouse IgG and the two competitor's recombinant HAMA blockers.

Advion Interchim scientific

Ordering information:

USA
5171 Wilfong Road
Memphis, Tennessee 38134
Phone: +1 901-382-8716
Fax: +1 901-333-8223

Email: info@meridianlifescience.com
Orders: orders@meridianlifescience.com
www.meridianbioscience.com/lifescience

meridian BIOSCIENCE®
LIFE DISCOVERED. LIFE DIAGNOSED.

Connect with us: