



Meridian
Life Science, Inc.

MOST POWERFUL ACTIVE BLOCKER

TRU BLOCK™

*“Lower Your Costs by
Lowering Your False Positives”*

INNOVATIVE SOLUTIONS. TRUSTED PARTNER.®

Meridian Life Science, Inc. is pleased to introduce TRU Block, the most powerful active blocking reagent on the market today. TRU Block actively blocks the heterophilic antibody (HA) interference in immunoassays including, but not limited to, Human Anti-Mouse Antibody (HAMA) interference.

What is HA Interference?

- Heterophilic Antibody (HA), is a group of Human Antibodies against animal IgG. HA interference is a well known interference factor in diagnostic assays, often causing false positive or false negative results.
- The most well known HA interference is HAMA (Human Anti-Mouse Antibodies), but HA to other animals such as Goat (HAGA), Sheep (HASA), Rabbit (HARA), etc. may also cause false results.
- The frequency of such interference is low, but the false results have significant impact on the quality and competitiveness of the diagnostic assays as well as on the lives of those individuals who have been falsely diagnosed.

Differences between TRU Block and Mouse IgG:

TRU Block	Mouse IgG
Active Blocker	Passive Blocker
Uses a proprietary active mechanism to bind HAMA	Passively binds
Works well on HAMA as well as other types of HA	Effective on HAMA but not on other types of HA
Much lower concentration is needed	Higher concentration is needed
5-20 times more effective than Mouse IgG for blocking HAMA	

Performance Testing against Competitor's Active Blocker:

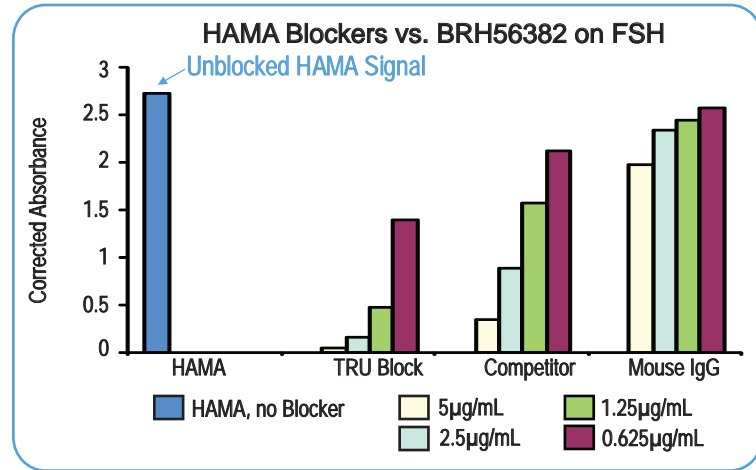
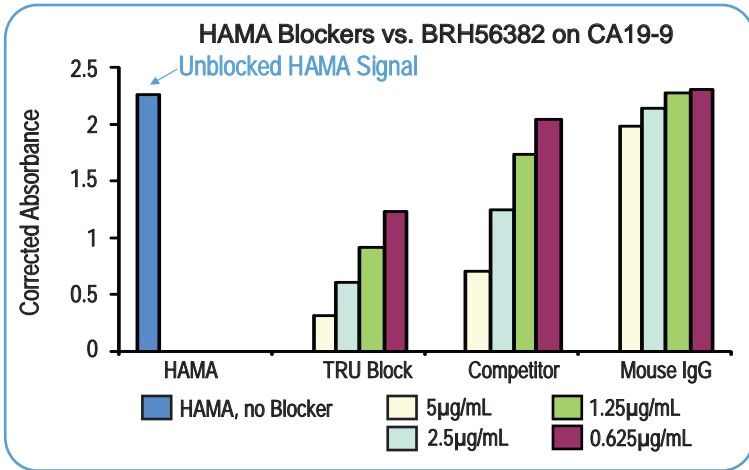
Two commercially available ELISA Kits were modified to measure HAMA blocking activity

- Buffer, without HAMA blockers, was used in place of the kit buffer which contained Mouse IgG.
- False positive HAMA signal from commercially available HAMA samples were measured initially in the absence of blocker (HAMA).
- HAMA signal activity was then tested in the presence of 3 different HAMA blockers (TRU Block, Competitor's Active Blocker and Mouse IgG).
- Blockers were tested at 4 different concentrations. Lower false positive HAMA signal indicates a better blocker.
- Blockers were added in sample diluent buffer for optimized performance.

Performance data is shown on the next page.

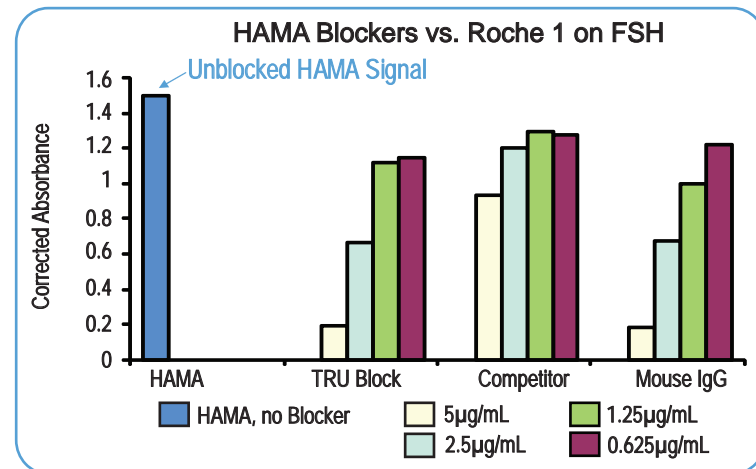
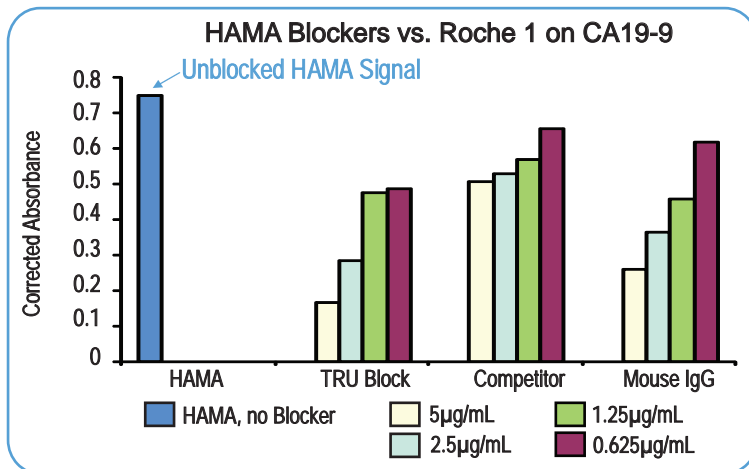
Most Powerful Blocker on the Market

HAMA Sample BRH56382 Tested on Both Assays



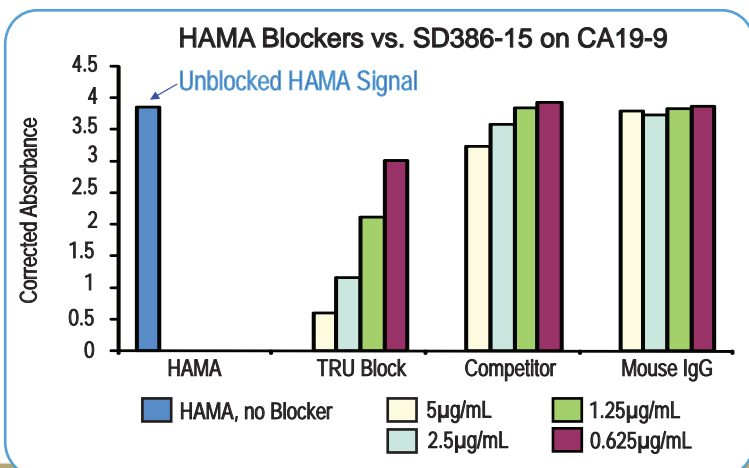
Conclusion: Based on CA19-9 and FSH Assays, TRU Block outperforms Competitor active blocker on BRH56382 HAMA sample.

Roche HAMA Type 1 Tested on Both Assays

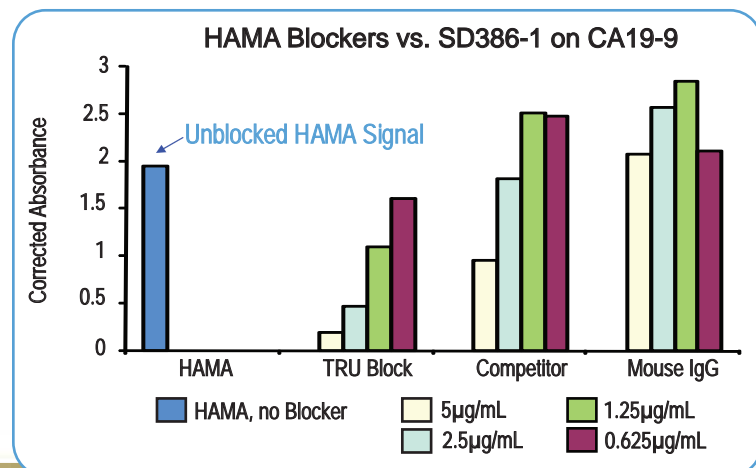


Conclusion: Based on CA19-9 and FSH Assays, TRU Block outperforms Competitor active blocker on Roche Type I HAMA sample.

HAMA Sample SD386-15 Tested on CA19-9 Assay



HAMA Sample SD386-1 Tested on CA19-9 Assay



Conclusion: Based on CA19-9 Assay, TRU Block outperforms Competitor active blocker on SD386-15 HAMA sample.

Conclusion: Based on CA19-9 Assay, TRU Block outperforms Competitor active blocker on SD386-1 HAMA sample.

Summary of TRU Block Performance Testing:

- Blocked HAMA signal more effectively than the competitor's active blocker.
- Performed significantly better than Mouse IgG at a much lower concentration.
- The enhanced effectiveness allows it to be added to immunoassays at greatly reduced concentrations, making it especially useful in miniaturized immunoassays where reduction of assay components is desired.
- The reduced concentrations needed to block HA interference reduces costs for diagnostic manufacturers.

CAT. No. A66800H

<u>TRU Block</u>	<u>Advantages</u>
>95% Purity	Reduces levels of contaminating ingredients for consistent performance.
High Potency Blocking	Reduces the amount of blocker usage by 5-20-fold when compared to Mouse IgG.
Large Lot Capacity	Reduces the cost of testing multiple lots.
Lot-to-Lot Consistency	Reduces the need for adjusting assay reagents to optimize performance. Each lot of TRU Block is tested in an ELISA assay against a control.
Extensive QC	Ensures a well-characterized product. Testing includes a HAMA blocking functional assay, purity and bioburden testing.

Azide free version of TRU Block and additional Blocking Reagents are available from Meridian Life Science, Inc. Please inquire for details.

- TRU Block Azide Free
- Mouse IgG Liquid or Lyophilized, with or without Azide
- Goat IgG, with or without Azide
- Rabbit IgG, with or without Azide
- Sheep IgG, with or without Azide

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