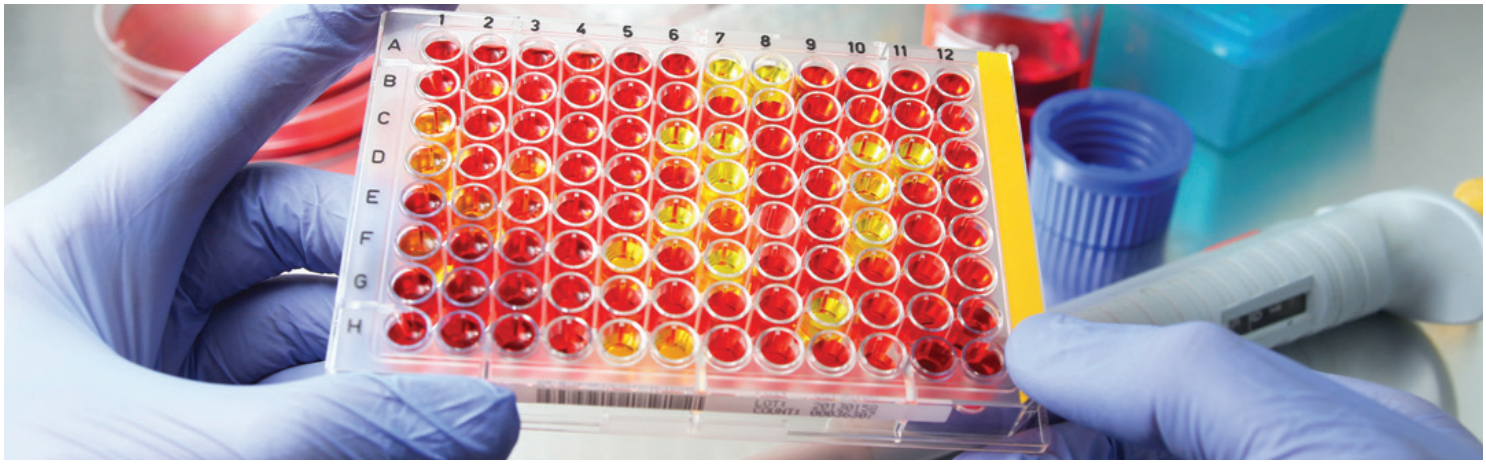
TRU Block™

A POWERFUL WAY TO BLOCK HAMA, HA & RF INTERFERENCE

meridian BIOSCIENCE ™
LIFE DISCOVERED. LIFE DIAGNOSED.

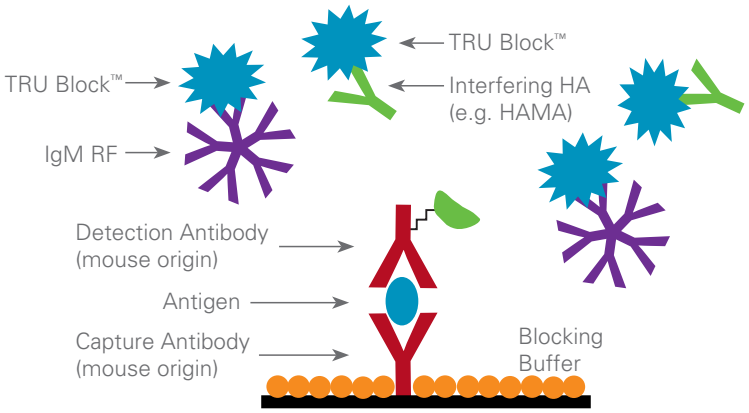
TRU Block™ is a range of powerful immunoassay blockers capable of blocking interference created by various heterophilic antibodies (HA) and rheumatoid factor (RF).



What causes Interference?

Immunoassay interference is a general term for substances that can change the outcome of an assay by causing a false positive or false negative test result. Examples of potentially interfering particles include endogenous antibodies such as heterophilic antibodies (HA) (e.g. HAMA) and rheumatoid factor (RF). Double mouse monoclonal assays and competitive assays are specifically prone to HA and RF interference and require a specialized blocker to ensure the assay's accuracy.

A blocker such as TRU Block™, contains specific binders directed against all types of heterophilic interference. Once bound to the interfering antibodies, the blocker prevents further binding of HA and RF to other assay components through steric hindrance.



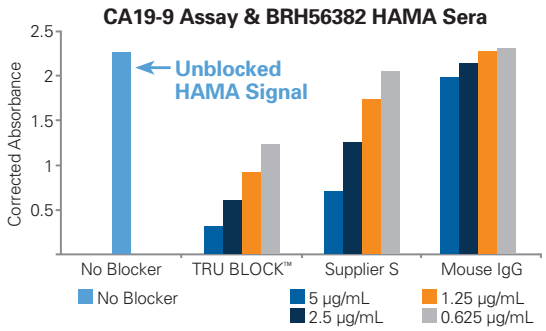
TRU Block™ Range

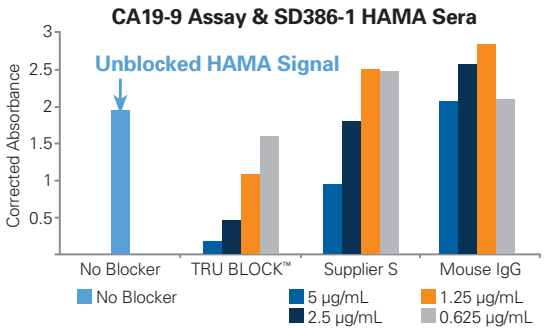
Product	Cat. Number	Protein Concentration	Application
TRU Block™ Ready	8001	Single-step dilution with recommended dilution of 1:1000 to 1:10	ELISA & LF
TRU Block™ ULTRA	8000	Range: 24 - 26 mg/mL	ELISA, CLIA & LF
TRU Block™	A66800H	Range: 24 - 26 mg/mL	ELISA & CLIA
TRU Block™ 2	A66802H	Range: 24 - 26 mg/mL	CLIA & LF
TRU Block™ 3	A66803H	24.3 mg/mL	ELISA

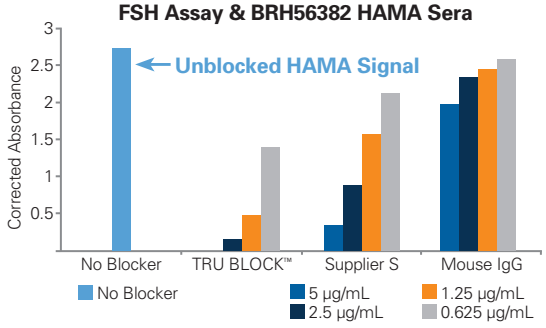
TRU Block™ Performance

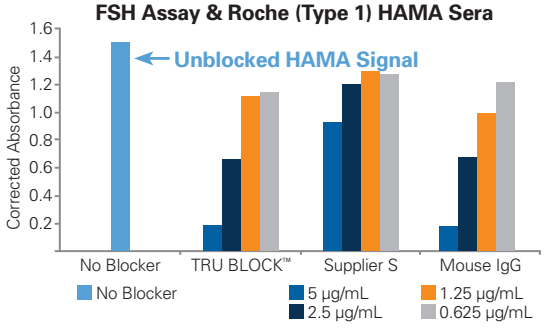
TRU Block™ is a powerful HAMA and RF blocking agent that can be used in double mouse monoclonal sandwich assays to reduce assay interference. Its advanced blocking performance has been proven by customers who use this blocker in commercial immunoassays. In-house studies *(shown below)* have also demonstrated TRU Block™ to be an effective blocker compared to mouse IgG and supplier S active HAMA blocker.

HAMA Interference

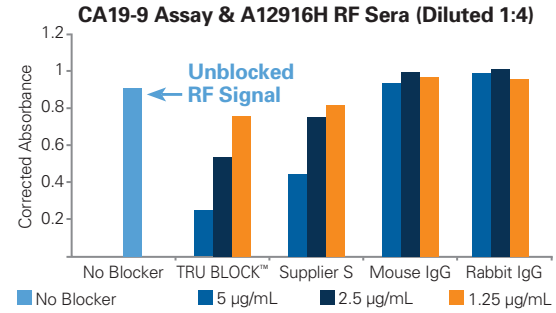


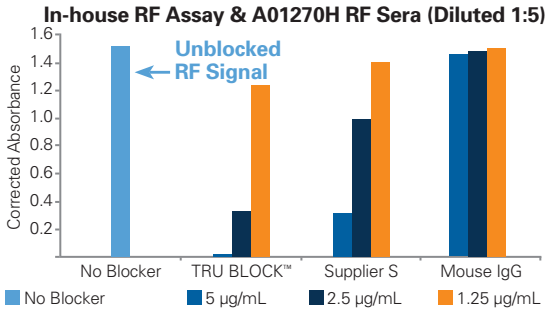






RF Interference





ASSAY METHOD:

Three different double mouse monoclonal sandwich assays (a commercial CA19-9, a commercial FSH and an in-house RF assay) were used to compare the performance of TRU Block™ against mouse IgG and supplier S active HAMA blocker. To quantify the relative amount HAMA or RF activity in each human sera sample within an assay, the assay was performed as per the manufacturer's instructions using a sample diluent buffer containing no mouse IgG or other blocker. Blocking solutions containing either TRU Block™, mouse IgG or supplier S blocker were prepared using the same sample diluent buffer at four different concentrations (5 µg/mL, 2.5 µg/mL, 1.25 µg/mL and 0.625 µg/mL).

The effectiveness of each blocker was determined by the relative suppression of HAMA or RF signal *(i.e. comparing the absorbance of samples with no blocker to those with various blockers)*. Native HAMA positive sera samples were obtained from Scantibodies, Inc. (SD386-1) and BioReclamation (BRH56382). Another sample was obtained from Roche *(Roche Type 1)* which contains pooled normal human serum spiked with Roche proprietary HAMA. RF sera samples *(MLS Cat No. A12916H and A01270H)* were obtained internally and are available for purchase from Meridian's product catalog (www.meridianbioscience.com/lifescience). The study results demonstrate that TRU Block™ is equivalent to or better than a supplier S active blocker on all HAMA and RF sera samples tested.

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