

Product Datasheet

Multi-Species dsRNA ELISA Kit (Colorimetric) NBP3-11368-200Tests

Unit Size: 200 Tests

Store at 4C short term. Store at -20C long term. Avoid freeze-thaw cycles.

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NBP3-11368-200Tests**Multi-Species dsRNA ELISA Kit (Colorimetric)**

Product Information	
Unit Size	200 Tests
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at 4C short term. Store at -20C long term. Avoid freeze-thaw cycles.
Product Description	
Description	<p>This assay works on the sandwich-ELISA principle and uses the K1 (IgG2a) mouse monoclonal antibody to dsRNA as a catcher antibody. The monoclonal antibody K2 (IgM) is used as the detector antibody. Based on the use of two double-stranded RNA (dsRNA)-specific monoclonal antibodies the dsRNA Detection Kit allows sensitive and selective detection of dsRNA molecules (larger than 30-40 bp), independent of their nucleotide composition and sequence. The detection is highly specific: dsRNA can be detected in nucleic acid extracts in the presence of 1,000-10,000-fold excess of other nucleic acids.</p> <p>Source The two dsRNA antibodies used in this kit were produced as follows: Female DBA/2 mice were injected intraperitoneally with a mixture of 50 ug L-dsRNA and 75 ug methylated bovine serum albumin, emulsified in complete Freund's adjuvant. After several boosts spleen cells were fused with Sp2/0-Agl4 myeloma cells to generate the hybridoma clones K1 and K2.</p>
Species	Multi-Species
Specificity/Sensitivity	<p>We recommend using the kit to detect viral dsRNAs or large natural or synthetic dsRNAs of non-viral origin in nucleic acid extracts, as well as to detect the presence of undesired dsRNA molecules in artificially synthesized (m)RNA preparations. Serial dilutions of the Poly(I:C) dsRNA standard (included in the kit) can be used as a positive control. For the exact detection protocol we refer to the kit manual that can be downloaded from our website</p> <p>Caution: The Poly(I:C) dsRNA positive control included in this sandwich ELISA kit is not intended to be used as a quantitative standard for other dsRNA preparations. Low molecular weight polyinosine-polycytidylic acid (i.e. poly(I:C)) is a synthetic analog of double-stranded RNA (dsRNA) and is comprised of short strands of inosine poly(I) homopolymer annealed to strands of cytidine poly(C) homopolymer. The average size of our Poly(I:C) LMW is 0.2 kb to 1 kb. The anti dsRNA antibodies J2 and/or K2 used in this kit may exhibit a different degree of reactivity with different dsRNAs obtained from synthetic or natural sources. It is therefore only intended to be used as a positive control to see if the ELISA has been executed correctly and that the test shows a linear relationship between the amount of dsRNA and the read out for the OD450.</p>
Kit Components	1 vial of coating antibody (store at -20C), 1 vial of Poly(I:C) dsRNA as positive control (store at -20C), 1 vial of dsRNA-specific detecting antibody (in RPMI + 5% FBS. Store at +4 °C or preferably at -20C), 1 vial of HRP-conjugated F(ab') ₂ Fragment of goat-anti mouse secondary antibody (store at +4C or at -20C), 1 vial of TMB substrate solution (store at +4C. Keep in dark)
Notes	This ds-RNA antibody was manufactured by Scicon.
Standard Curve Range	1 - 300 ng/ml (0.1 - 30 ng/well)
Sensitivity	3 ng/ml
Inter Assay	5 - 10%
Intra Assay	5 - 10%

Assay Type	Sandwich ELISA
Sample Volume	100 ul
Product Application Details	
Applications	ELISA
Recommended Dilutions	ELISA





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Products Related to NBP3-11368-200Tests

NBP3-11395-200ug	dsRNA Antibody (J2) - Azide and BSA Free
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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. ELISA Kits are guaranteed for 6 months from date of receipt.

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