

# Product Datasheet

## Multi-Species dsRNA ELISA Kit (Colorimetric) NBP3-11367-200Tests

Unit Size: 200 Tests

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

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**NBP3-11367-200Tests****Multi-Species dsRNA ELISA Kit (Colorimetric)**

<b>Product Information</b>	
<b>Unit Size</b>	200 Tests
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Product Description</b>	
<b>Description</b>	<p>This assay works on the sandwich-ELISA principle and uses the J2 (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><b>Source</b> 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 J2 and K2.</p>
<b>Species</b>	Multi-Species
<b>Specificity/Sensitivity</b>	<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.</p> <p>For the exact detection protocol we refer to the kit manual that can be downloaded from our website.</p> <p><b>Caution:</b> 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 K1 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>
<b>Kit Components</b>	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 +4C or preferably aliquoted at -20C), 1 vial of HRP-conjugated F(ab') <sub>2</sub> Fragment of goat-anti mouse secondary antibody (store at +4C or aliquoted at -20C), 1 vial of TMB substrate solution (Store at +4C. Keep in dark)
<b>Notes</b>	This ds-RNA antibody was manufactured by Scicon.
<b>Standard Curve Range</b>	3 - 300 ng/ml (0.3 - 30 ng/well)
<b>Sensitivity</b>	10 ng/ml
<b>Inter Assay</b>	5 - 10%



<b>Intra Assay</b>	5 - 10%
<b>Assay Type</b>	Sandwich ELISA
<b>Sample Volume</b>	100 ul
<b>Product Application Details</b>	
<b>Applications</b>	ELISA
<b>Recommended Dilutions</b>	ELISA
<b>Application Notes</b>	.





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### **Products Related to NBP3-11367-200Tests**

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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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