

Product Specification Sheet

**Wolbachia Surface protein precursor (WSP)**

<input type="checkbox"/> <b>Cat # WSP11-C</b>	Recombinant Wolbachia Surface protein precursor (WSP) control for Western blot	<b>SIZE:</b> 100 ul
<input type="checkbox"/> <b>Cat # WSP11-S</b>	Rabbit Anti-Wolbachia Surface protein precursor (WSP) antiserum	<b>SIZE:</b> 100 ul
<input type="checkbox"/> <b>Cat # WSP11-A</b>	Rabbit Anti-Wolbachia Surface protein precursor (WSP) antibody, affinity purified	<b>SIZE:</b> 100 ug

Wolbachia is a genus of bacteria which infects arthropod species, including a high proportion of insects, as well as some nematodes. It is one of the world's most common parasitic microbes and is possibly the most common reproductive parasite in the biosphere. Its interactions with its hosts are often complex, and in some cases have evolved to be mutualistic rather than parasitic.

Wolbachia is recently being used for disease control of dengue 'elimination'. Dengue is a viral disease of humans, now endemic on three continents, affecting approximately one-third of the human population. The main vector of dengue virus (DENV) is the mosquito *Aedes aegypti*, which has no native Wolbachia infection. Wolbachia were introduced into *Ae. aegypti* with the hope of controlling DENV transmission by shortening the life of female mosquitoes. Although life-shortening was projected to have only a small impact on mosquito demography, it could potentially have a major effect on disease transmission by greatly reducing the number of females old enough to transmit the virus.

**Source of Antigen and Antibodies**

<b>Antigen</b>	Recombinant Wolbachia Surface protein precursor ( <b>WSP15-R-10</b> ) was expressed in <i>E.coli</i> as fusion protein (32-237 aa, protein accession AQQE01000063.1, >95%, ~29.1 KDa).
<b>Ab Host/type</b>	Rabbit, polyclonal antiserum ( <b>cat # WSP11-S</b> )
<b>Secondary antibody</b>	Cat# 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available)
<b>Negative control</b>	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

**Cat# WSP11-C, positive control**



Recombinant Wolbachia Surface protein precursor protein was expressed in *E.coli* cells as his-tag fusion protein (full length, >95%, ~29.1 KDa). Purified glycoprotein for Western blot positive control (**Cat# WSP11-C**) is supplied in SDS-PAGE sample buffer (reduced) at 10 ng/ul. Load 1-10 ng of # **WSP11-C** for good visibility with the appropriate antibody. Store at -20°C in suitable size aliquots. SDS may crystallize in cold conditions. It should be re-dissolved by warming before taking it from the stock. It should be heated once prior to loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. Do not freeze, thaw, or heat repeatedly.

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**Form & Storage of Antibodies:**

**Antiserum**

- 100 ul solution
- Buffer: Neat serum w/ 0.09% sodium azide

**Affinity purified**

- 100 ug/200 ul (0.5 mg/ml) solution
- Buffer: PBS + 0.1% BSA

**Storage:**

**Short-term:** unopened, undiluted vials for 1-2 weeks at 4°C.

**Long-term:** at -20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability:** 12 months at -20°C or below.

**Shipping:** 4°C for solutions and room temperature for lyophilized powder

**Recommended Usage**

**Western Blotting:** 0.1-2 ug/ml

**ELISA:** 0.1-10 ug/ml

**w**

**Histochemistry & Immunofluorescence:** 1-10 ug/ml

**References:** Dumler JS et al. (2001). *Int. J. Syst. Evol. Microbiol.* 51 (Pt 6): 2145-65; Lo N et al. (2007). *Int. J. Syst. Evol. Microbiol.* 57 (Pt 3): 654-7; Forsman M (1994). *Int. J. Syst. Bacteriol.* 44 (1): 38-46.

*\*This product is for In vitro research use only.*

Catalog#	Description
RV-403500-1	Human Anti-Wolbachia Surface Protein (WSP) IgA ELISA kit, 96 tests, Quantitative
RV-403505-1	Human Anti-Wolbachia Surface Protein (WSP) IgG ELISA kit, 96 tests, Quantitative
RV-403510-1	Human Anti-Wolbachia Surface Protein (WSP) IgM ELISA kit, 96 tests, Quantitative
RV-403520-1	Mouse Anti-Wolbachia Surface Protein (WSP) IgA ELISA kit, 96 tests, Quantitative
RV-403525-1	Mouse Anti-Wolbachia Surface Protein (WSP) IgG ELISA kit, 96 tests, Quantitative
RV-403530-1	Mouse Anti-Wolbachia Surface Protein (WSP) IgM ELISA kit, 96 tests, Quantitative
WSP15-R-10	Recombinant Wolbachia Surface protein precursor (WSP, full length, his tag, >95%) for ELISA/Western

WSP11-A-S-C

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