

## Parvovirus B19 VLP VP1/VP2 Co-Capsid

### Antigen Specification

**Product Number: 48100**

**Description:**

Human parvovirus B19 capsid proteins VP1 and VP2 as virus-like particle (VLP). Recombinant antigen for research use only.

**Immunological function:**

Binds IgG- and IgM-type human antibodies.

**Origin:**

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

**Expression construct:**

Full-length cDNAs coding for human parvovirus B19 VP1 and B19 VP2.

**Biochemical tests:**

SDS-PAGE (purity > 80%; content of VP1 > 3.5%); Western blot with anti-Parvovirus B19 positive sample.

**Calculated molecular weights:**

VP1 86 kDa  
VP2 61 kDa

**Calculated isoelectric points:**

VP1 pH 6.11  
VP2 pH 6.40

**Immunological tests/Functionality:**

Immunodot analyses with positive/negative samples.

**Recommended buffer/storage and handling conditions:**

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent. Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

**Appearance:**

Light scattering properties of virus-like particles (VLPs) cause slight turbidity of product suspensions; this does not affect product quality.

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