Data sheet

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Jena Bioscience

HIV-type O Envelope
Human Immunodeficiency Virus Type O Antigen
recombinant, *E. coli*

Cat. No.	Amount
PR-1209	100 µg

For *in vitro* use only
Quality guaranteed for 12 months
Store at -20°C

Avoid freeze / thaw cycles

Form
Liquid. Supplied in 20 mM PBS pH 7.8, 0.5 M NaCl, 1 mM DTT, 8 M urea and 0.4 M imidazole.

Application
May be used in ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems.

Specificity
Immuno reactive with all sera of HIV type-O infected individuals.

Purity
>95% by SDS-PAGE and RP-HPLC

Description
Recombinant HIV type-O peptide, containing the HIV type-O transmembrane envelopederived specific sequence. Detects all clades of HIV type-O infected individuals responding to HIV type-O envelope proteins.
The protein was purified by proprietary chromatographic technique.

Background
HIV belongs to the retrovirus family, distinguished by possession of a viral reverse transcriptase that transcribes viral RNA into DNA which is integrated into the host-cell genome.
Based on genetic variability in the envelope (*env*) gene, HIV-1 can be subdivided into at least 10 distinct subtypes (designated A to J) responsible for separate geographic pandemics. Phylogenetic analyses have shown that each subtype in this major group (group M) is approximately equidistant from the others, as if arising from a common ancestor. In contrast, a few divergent HIV-1 strains form a cluster distinct from group M and have been categorized as members of the outlier group (group O).

Selected References:

Payan *et al.* (2003) [Measuring the HIV viral load with LCx (Abbott): importance for the therapeutic follow-up of 3 patients infected by type O HIV]. *Transfus. Clin. Biol.* **10**:72.
Miguel *et al.* (1998) Analysis of *pol* Gene Heterogeneity, Viral Quasispecies, and Drug Resistance in Individuals Infected with Group O Strains of Human Immunodeficiency Virus Type 1. *J. Virol.* **72**:9002.