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AR10649PU-N OriGene EU

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HIV-1 + HIV-2 gp41 + gp120 + gp39 - Purified

Catalog No.:	AR10649PU-N
Quantity:	0.5 mg
Concentration:	1.0 mg/ml
Background:	HIV-1 and HIV-2 appear to package their RNA differently. HIV-1 binds to any appropriate RNA whereas HIV-2 preferentially binds to mRNA which creates the Gag protein itself. This means that HIV-1 is better able to mutate. HIV-2 is transmitted in the same ways as HIV-1: Through exposure to bodily fluids such as blood, semen, tears and vaginal fluids. Immunodeficiency develops more slowly with HIV-2. HIV-2 is less infectious in the early stages of the virus than with HIV-1. The infectiousness of HIV-2 increases as the virus progresses. Major differences include reduced pathogenicity of HIV-2 relative to HIV-1, enhanced immune control of HIV-2 infection and often some degree of CD4-independence. Despite considerable sequence and phenotypic differences between HIV-1 and 2 envelopes, structurally they are quite similar. Both membrane-anchored proteins eventually form the 6-helix bundles from the N-terminal and C-terminal regions of the ectodomain, which is common to many viral and cellular fusion proteins and which seems to drive fusion. HIV-1 gp41 helical regions can form more stable 6-helix bundles than HIV-2 gp41 helical regions however HIV-2 fusion occurs at a lower threshold temperature (25°C), does not require Ca ²⁺ in the medium, is insensitive to treatment of target cells with cytochalasin B, and is not affected by target membrane glycosphingolipid composition.
Source:	E. coli
Format:	Purity: >95.0% pure as determined by HPLC-C4 and 10.0% PAGE analysis. Purification Method: S-Sepharose > Ceramic Hydroxyapatite > S-300 > G-25 Dialysis. Buffer System: 100 mM NaPO ₄ , pH 6, 0.05% SDS
Applications:	Antigen in ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Description:	The <i>E.coli</i> derived recombinant protein contains the C- terminus of gp120 and most of gp41. The protein is conjugated to a 23 amino acids synthetic peptide derived from pg36 of HIV-2. Specificity: Immunoreactive with all sera of HIV-1, HIV type O and HIV-2 infected individuals.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



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Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com