



Certificate of Analysis for HRP-20068

Monoclonal Anti-Human Immunodeficiency Virus Type 1 (HIV-1) p24 Protein, Clone AG3.0 (produced *in vitro*)

Catalog No. HRP-20068

Product Description:

Creative Biolabs Catalog No. MRO-961CQ-LowE (Lot CB2109J03L)

Antibody Class: IgG1

Mouse monoclonal antibody prepared against the p24 Gag protein of human immunodeficiency virus type 1 (HIV-1) was produced from the expression vectors by transient transfection and expression in mammalian cells with chemically defined culture media, purified by affinity chromatography, ultrafiltered and sterile filtered prior to vialing.

Lot: 70046855

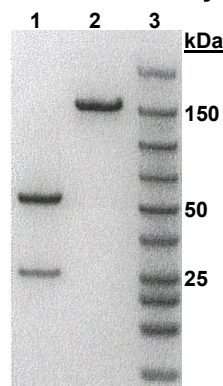
Manufacturing Date: 27SEP2021

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	IgG1	IgG1k
Purity SDS-PAGE analysis (Coomassie blue)	Report results	Target bands of approximately 50 kDa and 25 kDa account for > 95% of total staining intensity (Figure 1)
SEC-HPLC	Report results	Target protein band(s) > 95% (Figure 2)
Concentration	Report results	1 mg per mL
Functional Activity ELISA ¹ Western blot analysis ² Dot blot analysis ²	Reactive Reactive Reactive	Reactive (Figure 3) Reactive (Figure 4) Reactive (Figure 5)
Filtration	0.2 µm filter-sterilized	0.2 µm filter-sterilized
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	< 1 EU per mg

¹Performed by coating with Recombinant HIV-1 p24, with HRP-Anti-Mouse IgG (H+L) as the secondary antibody

²Performed by loading Recombinant HIV-1 p24 (His Tag) and an incubation concentration of HRP-20068 of 2 ng/µL, with HRP-Anti-Mouse IgG (H+L) as the secondary antibody

Figure 1: SDS-PAGE Analysis



Lane 1: HRP-20068 (reduced, β-mercaptoethanol)
Lane 2: HRP-20068 (non-reduced)
Lane 3: MW ladder

NIH HIV Reagent Program

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Page 1 of 2



Figure 2: SEC-HPLC

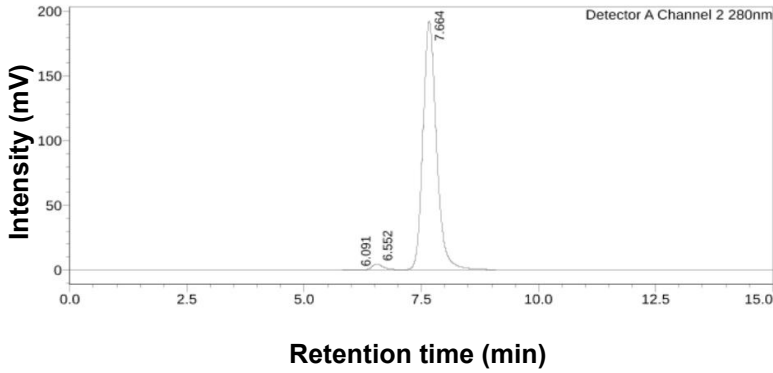


Figure 3: ELISA

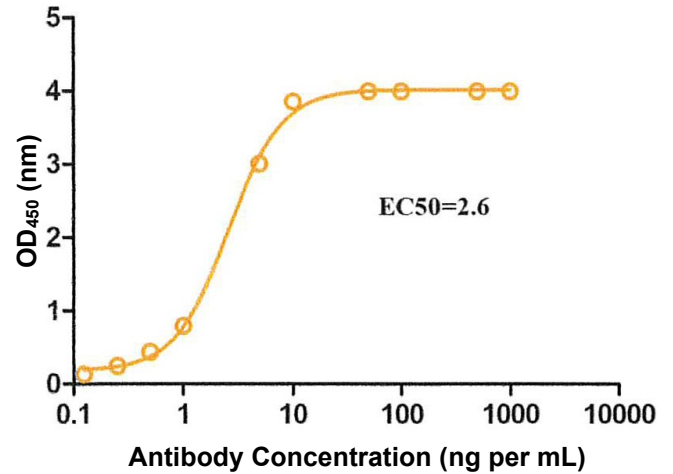


Figure 4: Western Blot Analysis

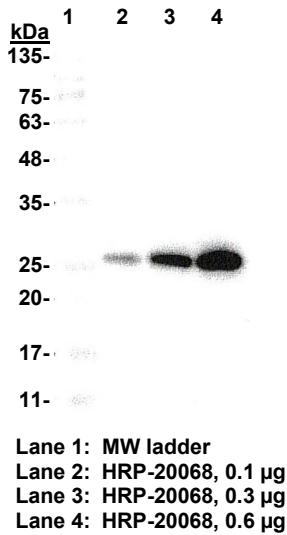
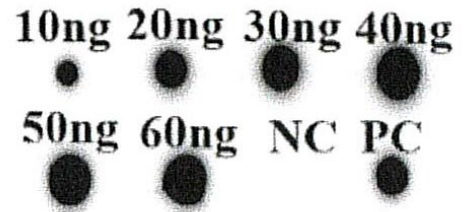


Figure 5: Dot Blot Analysis



/Ken Crawford/
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24 DEC 2021

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