DENDRITICS

Monoclonal neutralizing anti-HIV-1 gp41

Product reference: DDX1304

Description

HIV-1-gp41 is a subunit of the envelope protein complex of HIV. HIV-1-gp41 is responsible for the fusion between the viral and the cell membranes and thus represents a target for HIV vaccines. Trimeric Env is composed of gp120, which is non-covalently associated with the membrane-anchored fusion protein gp41. HIV-1 gp120 binding to CD4 and co-receptor (CCR5 or CXCR4) induces conformational changes, resulting in gp41 exposure and in the production of fusion-intermediate conformation of gp41 (HR1 and HR2). 3 neutralizing anti-gp41 monoclonal antibodies were selected from mice immunized with 293T cells stably transfected with a construct expressing HR1 plus HR2. *(Dawood R et al, AIDS 2013, in press).*

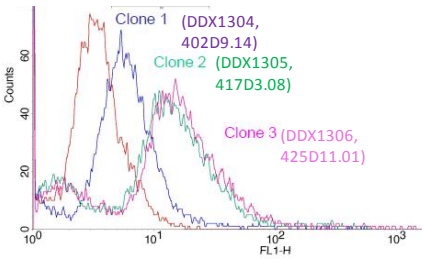
Clone: **402D9.14 (referred to as clone 1 in the article)**
Species: mouse
Specificity: Linear epitope located in HR2
Immunogen: HR1-PID-HR2-transfected HEK 293 cells (HIV-1, 92BR025, Clade C)
Isotype: IgG1
Purification: QMA Hyper D ion exchange chromatography
Formulation/size: **Purified**: 100 µg in 200 µl / 50 µg in 100 µl Tris-NaCl pH 8
Coupled: 100 µg in 200 µl / 50 µg in 100 µl PBS 50% glycerol

Available formats:

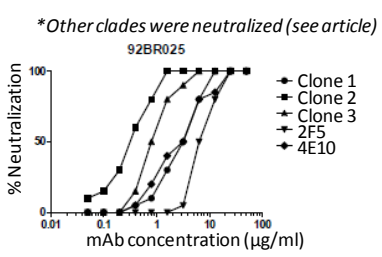
Reference N°		Format	Application tested
50µg	100µg		
DDX1304P-50	DDX1304P-100	Purified	Flow cytometry, IF, Neutralization, Cell-coated ELISA, Inhibition of syncitia formation, Blocking of HR1/HR2 complex formation
DDX1304A488-50	DDX1304A488-100	Alexa-fluor®488 *(on request)*	
DDX1304A546-50	DDX1304A546-100	Alexa- fluor®546 *(on request)*	
DDX1304A647-50	DDX1304A647-100	Alexa- fluor®647 *(on request)*	
DDX1304B-50	DDX1304B-100	Biotin (*on request*)	

Other clones available on request

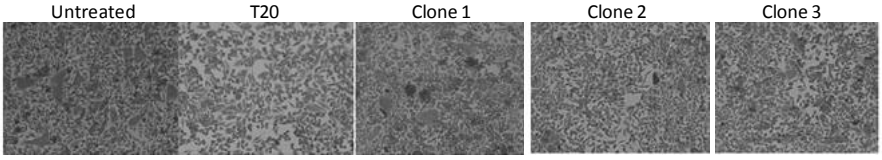
Applications tested:



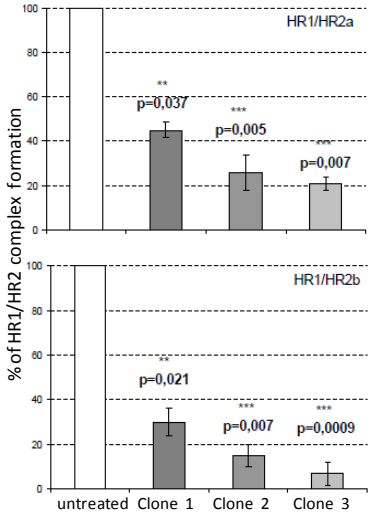
FACS staining of HEK293-gp41™ cell line



Neutralizing activity



Inhibition of syncitia formation



Inhibition of HR1/HR2 fusion complex formation

Dawood R et al, 2013

Usage recommendation: ***This monoclonal antibody may be used between 5-25µg/ml.
*Optimal dilution should be determined by each laboratory for each application.
*Coupled antibody: to maintain RT before use.

Aliquot storage conditions: **-20°C. KEEP CONTENTS STERILE: no preservative.**
<u>Purified</u> antibodies: avoid repeated freeze/thaw cycles.
<u>Coupled</u> antibodies: glycerol protects from freezing.

Not for use in Humans. For research purpose only

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