

## Monoclonal Anti-human Influenza M1/HLA-A2 Complex

**Product reference: DDX0270**

### Description

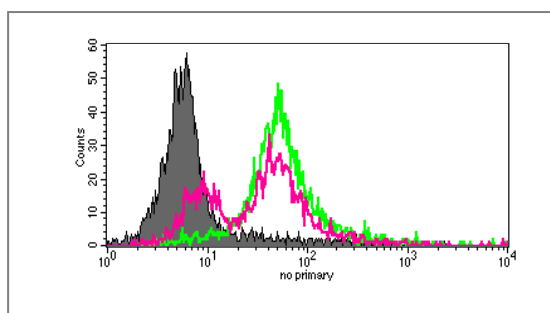
In order to generate this mAb, the HLA.A2 heavy chain and human  $\beta$ 2-m were produced in bacteria, purified and covalently bound to the immunodominant HLA.A2 restricted peptide 58-66 of the *influenza* virus matrix protein (M1p). Correct refolding was confirmed by staining specific CD8<sup>+</sup> CTL clones with the biotinylated recombinant chimera that had been tetramerized with PE-streptavidin. Balb/c mice were immunized with the chimera and hybridomas were tested by a differential chimera-based ELISA containing M1-HLA.A2 *versus* HIVgag-HLA.A2 and empty HLA.A2 constructs. 405H1 mAb was found to be specific for M1-HLA.A2 with a  $K_d = 3,3 \cdot 10^{-10}$  M. 405H1 represents a valuable tool for studying the processing and direct or cross-presentation on MHC-I molecule.

<b>Clone:</b>	<b>405H1.01</b>
<b>Species:</b>	mouse
<b>Specificity:</b>	human extracellular/M1 HLA neuropilin-1(epitope in extracellular domain)
<b>Immunogen:</b>	T2 cell line charged in M1 peptide
<b>Species cross-reactivity:</b>	nd
<b>Isotype:</b>	IgG1
<b>Purification:</b>	QMA Hyper D ion exchange chromatography
<b>Formulation/size:</b>	<b>Purified:</b> 100 $\mu$ g in 200 $\mu$ l / 50 $\mu$ g in 100 $\mu$ l Tris-NaCl pH 8
	<b>Coupled:</b> 100 $\mu$ g in 200 $\mu$ l / 50 $\mu$ g in 100 $\mu$ l PBS 50% glycerol

### Available formats:

Reference N°		Format	Application tested
50 $\mu$ g	100 $\mu$ g		
DDX0270P-50	DDX0270P-100	Purified	Flow cytometry, ELISA
DDX0270A488-50	DDX0270A488-100	Alexa-fluor@488	Flow cytometry
DDX0270A647-50	DDX0270A647-100	Alexa-fluor@647	Flow cytometry
DDX0270B-50	DDX0270B-100	Biotin	ELISA

**Applications tested:** Flow cytometry, ELISA.



*M1 loading on HLA.A2 transfected EL4 cells:  
Flow cytometry with clone 405H1.01*

Control: EL4 HLA-A2 cells pulsed with M1 peptide, no primary antibody  
 EL4 HLA-A2 cells pulsed with peptide M1 stained with 405H1 mAb  
 Mixture of EL4 & EL4 HLA-A2 cells pulsed with M1. stained with 405H1 mAb

**Usage recommendation:**

- \*This monoclonal antibody may be used between 5-20  $\mu$ g/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.**  
**Purified** antibodies: avoid repeated freeze/thaw cycles.  
**Coupled** antibodies: glycerol protects from freezing.