

Monoclonal Anti-human Influenza M1/HLA-A2 Complex

Product reference: DDX0270

Description

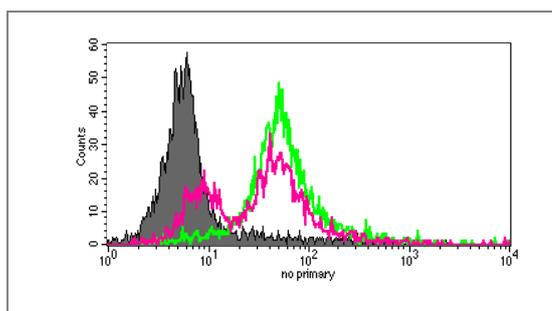
In order to generate this mAb, the HLA.A2 heavy chain and human β 2-m were produced in bacteria, purified and covalently bound to the immunodominant HLA.A2 restricted peptide 58-66 of the *influenza* virus matrix protein (M1p). Correct refolding was confirmed by staining specific CD8⁺ CTL clones with 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.

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

Available formats:

Reference N°		Format	Application tested
50 μ g	100 μ 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 μ 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.

Not for use in Humans. For research purpose only