Product Datasheet

MHC Class I Antibody (OX18) - Azide and BSA Free
NBP2-80848

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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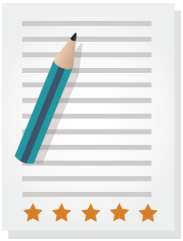
Updated 8/21/2023 v.20.1



NBP2-80848

MHC Class I Antibody (OX18) - Azide and BSA Free

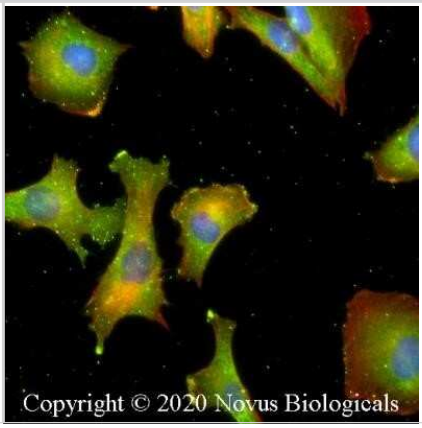
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OX18
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS

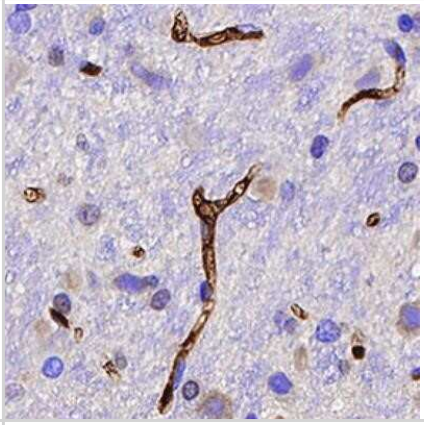
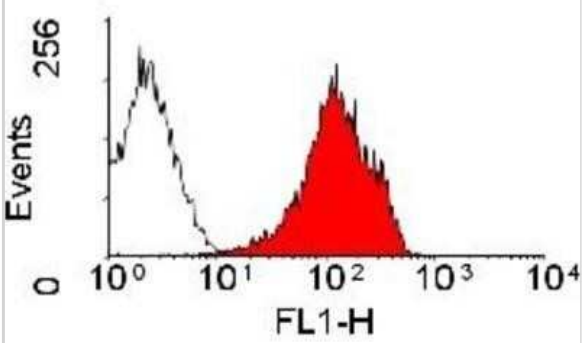
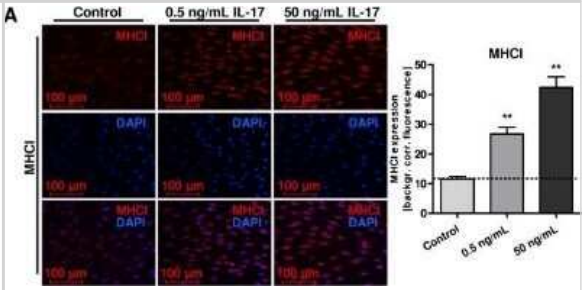
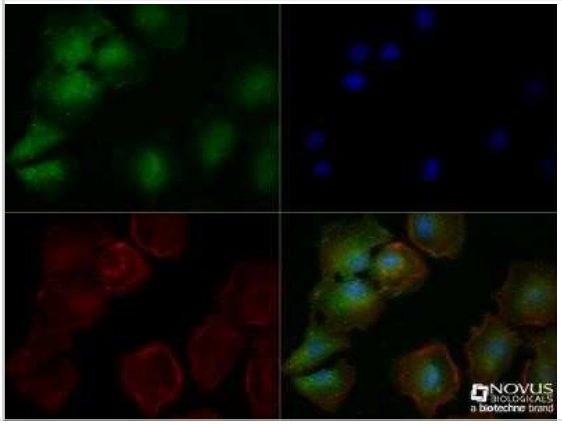
Product Description	
Host	Mouse
Gene ID	3133
Gene Symbol	HLA-E
Species	Rat
Immunogen	Rat spleen glycoproteins

Product Application Details	
Applications	ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Block/Neutralize, CyTOF-ready
Recommended Dilutions	Flow Cytometry 1:50-1:100, ELISA 1:100 - 1:2000. Use reported in scientific literature (PMID 2783579), Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500. Use reported in scientific literature (PMID 24678820), Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Flow (Intracellular), CyTOF-ready, Block/Neutralize reported in scientific literature (PMID 1698855)
Application Notes	The epitope recognized by this anti-rat RT1-A antibody is reported to be sensitive to formaldehyde fixation and tissue processing. The use of acetone fixation for frozen sections is recommended. This antibody is CyTOF ready.

Images

Immunocytochemistry/Immunofluorescence: MHC Class I Antibody (OX18) - Azide and BSA Free [NBP2-80848] - PC12 cells were fixed for 10 minutes using 4% PFA and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton-X100. The cells were incubated with anti-MHC Class I Antibody (OX18) at 2 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



Immunohistochemistry: MHC Class I Antibody (OX18) - Azide and BSA Free [NBP2-80848] - Analysis of FFPE rat brain cerebellum using MHC Class I (OK18) antibody at 1:200 on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous p	
Flow Cytometry: MHC Class I Antibody (OX18) - Azide and BSA Free [NBP2-80848] - Analysis using the FITC conjugate of NB120-6405. Staining of rat spleen cells with mouse anti-rat RT1-A (OX18).	
Immunocytochemistry/Immunofluorescence: MHC Class I Antibody (OX18) - Azide and BSA Free [NBP2-80848] - Major histocompatibility complex (MHC) I and II as well as Transporter associated with antigen presentation II (TAPII) were analyzed, using immunocytochemistry on rat Schwann cells (SCs). Corresponding merges are shown in the bottom rows. Treatment of SCs with IL-17 was performed at concentrations of 0.5 and 50 ng/mL. Graphs to the right show densitometry quantification. SCs showed expression of MHCI > TAPII > MHCII, which increased after IL-17 treatment. MHCI was mainly detected in the cytoplasm and the expression increased in a dose-dependent manner after IL-17 treatment, significant for 0.5 ng/mL and 50 ng/mL (**P <=0.01). Image collected and cropped by CiteAb from the following publication (https://jneuroinflammation.biomedcentral.com/articles/10.1186/1742-2094-11-63), licensed under a CC-BY license. Image from the standard format of this antibody.	
Immunocytochemistry/Immunofluorescence: MHC Class I Antibody (OX18) - Azide and BSA Free [NBP2-80848] - PC-12 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-MHC Class I (OX18) NB120-6405 at a 1:100 dilution overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.	

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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210-TA-005	TNF-alpha [Unconjugated]

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