

HLA-DR Monoclonal Antibody (LN3), Super Bright™ 780, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Super Bright™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LN3
Conjugate	Super Bright™ 780
Excitation/Emission Max	413/780 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2724457

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	10 Publications

Product Specific Information

Description: The LN3 mAb reacts with the human major histocompatibility complex (MHC) class II, HLA-DR. HLA-DR is expressed on the surface of human antigen presenting cells (APC) including B cells, monocytes, macrophages, DCs, and activated T cells. HLA-DR is a heterodimeric transmembrane protein composed of alpha and beta subunits and plays an important role in the presentation of peptides to CD4+ T lymphocytes.

Applications Reported: This LN3 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This LN3 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright

Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

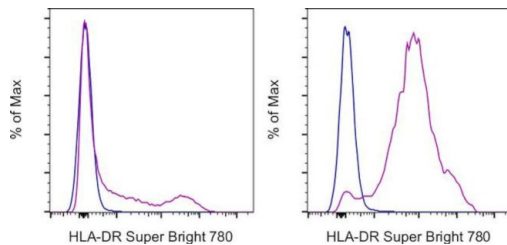
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 780 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For HLA-DR Monoclonal Antibody (LN3), Super Bright™ 780, eBioscience™



HLA-DR Antibody (78-9956-42) in Flow

Normal human peripheral blood cells were stained with Mouse IgG2b kappa Isotype Control, Super Bright 780 (Product # 78-4732-82) (blue histogram) or HLA-DR Monoclonal Antibody, Super Bright 780 (purple histogram). Cells in the lymphocyte (left) or monocyte (right) gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

15 References

Immunohistochemistry (3)

Antioxidants (Basel, Switzerland)

Dimethyl Fumarate, an Approved Multiple Sclerosis Treatment, Reduces Brain Oxidative Stress in SIV-Infected Rhesus Macaques: Potential Therapeutic Repurposing for HIV Neuroprotection.

"Published figure using HLA-DR monoclonal antibody (Product # 78-9956-42) in Immunohistochemistry"

Authors: Garcia-Mesa Y, Xu HN, Vance P, Gruenewald AL, Garza R, Midkiff C, Alvarez-Hernandez X, Irwin DJ, Gill AJ, Kolson DL

Year
2021

Nature communications

Gene expression and functional deficits underlie TREM2-knockout microglia responses in human models of Alzheimer's disease.

"Published figure using HLA-DR monoclonal antibody (Product # 78-9956-42) in Immunohistochemistry"

Authors: McQuade A, Kang YJ, Hasselmann J, Jairaman A, Sotelo A, Coburn M, Shabestari SK, Chadarevian JP, Fote G, Tu CH, Danhash E, Silva J, Martinez E, Cotman C, Prieto GA, Thompson LM, Steffan JS, Smith I, Davtayan H, Cahalan M, Cho H, Blurton-Jones M

Year
2020

[View more IHC references on thermofisher.com](#)

Immunohistochemistry (Frozen) (1)

Acta neuropathologica communications

Brain macrophages acquire distinct transcriptomes in multiple sclerosis lesions and normal appearing white matter.

"Published figure using HLA-DR monoclonal antibody (Product # 78-9956-42) in Immunohistochemistry (Frozen)"

Authors: Miedema A, Gerrits E, Brouwer N, Jiang Q, Kracht L, Meijer M, Nutma E, Peferoen-Baert R, Pijnacker ATE, Wesseling EM, Wijering MHC, Gabius HJ, Amor S, Eggen BJL, Kooistra SM

Year
2022

Immunocytochemistry (1)

Oncoimmunology

The role of irreversible electroporation in promoting M1 macrophage polarization via regulating the HMGB1-RAGE-MAPK axis in pancreatic cancer.

"Published figure using HLA-DR monoclonal antibody (Product # 78-9956-42) in Flow Cytometry"

Authors: He C, Sun S, Zhang Y, Xie F, Li S

Year
2021

More applications with references on thermofisher.com

Flow (10)

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