

Product Datasheet

MHC Class II Antibody (ER-TR2) - BSA Free NB100-64959

Unit Size: 0.125 mg

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

www.novusbio.com



technical@novusbio.com

Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-64959

Updated 9/9/2025 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NB100-64959



NB100-64959

MHC Class II Antibody (ER-TR2) - BSA Free

Product Information	
Unit Size	0.125 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	ER-TR2
Preservative	0.09% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Rat MHC Class II Antibody (ER-TR2) - BSA Free (NB100-64959) is a monoclonal antibody validated for use in IHC, Flow and ICC/IF. Anti-MHC Class II Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rat
Gene ID	3108
Gene Symbol	HLA-DMA
Species	Mouse
Specificity/Sensitivity	NB100-64959 recognizes a polymorphic determinant on the murine MHC (major histocompatibility complex) class II molecule. In the mouse, MHC class II molecules are expressed by dendritic cells, B-cells and macrophages. In thymus tissues, clone ER-TR2 stains cortical and medullary stromal cells. Clone ER-TR2 specifically recognizes mouse strains with the haplotypes I-A k,s,r. Mouse strains with the haplotypes I-A b,d,q,f are not recognized by this antibody.
Immunogen	Isolated C3H thymic stromal cells
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Flow Cytometry 1:100-1:200, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen 1:10-1:500
Application Notes	Use in ICC/IF was reported in scientific literature (PMID: 23750207).

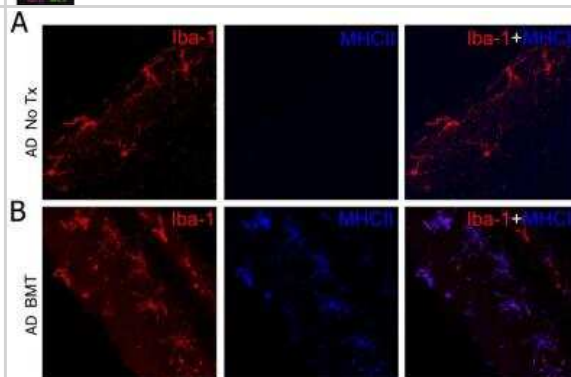


Images

Immunocytochemistry/Immunofluorescence: MHC Class II Antibody (ER-TR2) [NB100-64959] - Staining of MHC II in conjunctiva associated lymphoid tissue in mice reared in a pathogen free environment for the purposed of comparing with mice reared in standard living conditions. [PMID: 24376530]



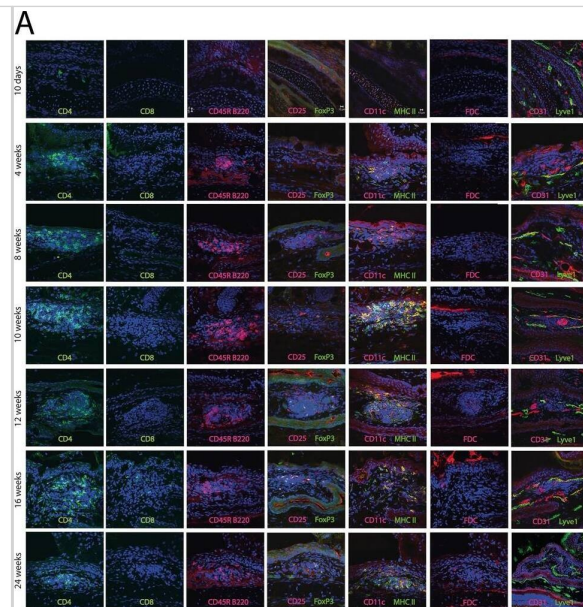
Immunocytochemistry/Immunofluorescence: MHC Class II Antibody (ER-TR2) [NB100-64959] - Comparison of MHC II levels in retinal microglia from mice without transplanted GFP+ BM Cells (panel A) and from mice with transplanted GFP+ BM cells. [PMID: 23750207]



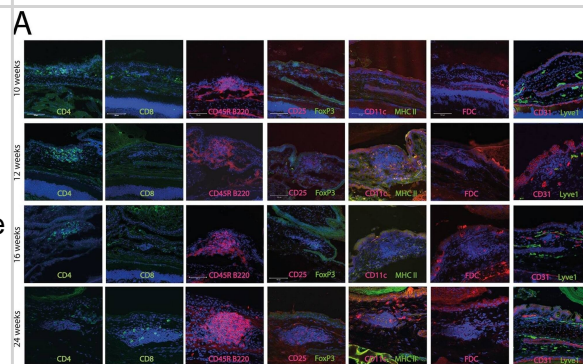
Immunocytochemistry/Immunofluorescence: MHC Class II Antibody (ER-TR2) [NB100-64959] - Staining of MHC II in conjunctiva associated lymphoid tissue in mice kept in standard living conditions for the purpose of comparing to MHC II expression over time in mice kept in pathogen free environment. [PMID: 24376530]



Development of CALT under SPF housing conditions. A) Immunohistological analysis of conjunctiva-associated lymphoid tissue (CALT). Mice aged 10 days until 24 weeks, kept under SPF housing conditions, were investigated using a panel of antibodies as described in table 1. Spatial distribution of lymphocytes, dendritic cells and follicular dendritic cells was analyzed. B) Schematic CALT development: 10 days after birth only CD4+ T-cells were sparsely present, followed by an influx of B-cells and formation of first follicles at 4 weeks of age. At 8 to 12 weeks CD8+ T-cells and CD4+CD25+ Tregs appeared, altogether forming a complex lymphoid follicle. After 16 weeks of age spatial organization diminished. C) CALT expression rate: CALT was not present at 10 days of age. 25% of the eyes at 4 weeks of age contained CALT, with a further increase to 43% CALT at 10 and 12 weeks of age. This was followed by a decrease to 31% at 16 weeks and an increased to 50% at 24 weeks of age. Numbers of follicles increased until 25% of the eyes contained 2 follicles at 12 weeks of age. At 24 weeks of age 25% of the eyes contained 3 follicles (n=number of eyes). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/24376530>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



CALT under standard housing conditions. Immunohistological staining of CALT at 10–24 weeks that were kept under standard housing conditions were investigated using a panel of antibodies as described in table 1. Spatial distribution of lymphocytes, dendritic cells and follicular dendritic cells was analyzed. A) Comparison of CALT expression in mice kept under standard housing conditions with concordant time points of animals kept under SPF housing conditions (expression rates from figure 1). Statistically CALT expression was similar in both housing conditions. (SPF=specific pathogen free; SH=Standard housing conditions; n= number of eyes examined. Differences were statistically not significant, $p>0.05$). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/24376530>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Siebelmann S, Gehlsen U, Httmann G et al. Development, Alteration and Real Time Dynamics of Conjunctiva-Associated Lymphoid Tissue. PLoS One 2013-12-20 [PMID: 24376530] (IF/IHC, ICC/IF, Mouse)

Yang Y, Shiao C, Hemingway JF et al. Suppressed Retinal Degeneration in Aged Wild Type and APP^{swe}/PS1^{deltaE9} Mice by Bone Marrow Transplantation. PLoS One 2013-06-04 [PMID: 23750207] (IHC-Fr, ICC/IF, Mouse)



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

Products Related to NB100-64959

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NB7115	Goat anti-Rat IgG (H+L) Secondary Antibody [HRP]
DDXCR03	Rat IgG2b Isotype Control
664-LI-025	LIGHT/TNFSF14 [Unconjugated]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB100-64959

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

