

# Product Datasheet

## HLA-DR Antibody (LN-3) - Azide and BSA Free NBP2-47670-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-47670-0.1mg**

HLA-DR Antibody (LN-3) - Azide and BSA Free

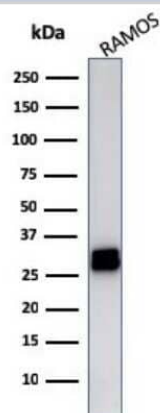
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at -20 to -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	LN-3
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2b Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS
<b>Product Description</b>	
<b>Description</b>	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-45310).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Mouse
<b>Gene ID</b>	3122
<b>Gene Symbol</b>	HLA-DRA
<b>Species</b>	Human, Monkey, Mouse (Negative)
<b>Reactivity Notes</b>	Does not react with Mouse.
<b>Specificity/Sensitivity</b>	This monoclonal antibody reacts with a 28kDa chain of HLA-DRB1 antigen, a member of MHC class II molecules. It does not cross react with HLA-DP and HLA-DQ. The L243 antibody recognizes a different epitope than the LN3 monoclonal antibody, and these antibodies do not cross-block binding to each others respective epitopes. HLA-DR is a heterodimeric cell surface glycoprotein comprised of a 36kDa alpha (heavy) chain and a 28kDa beta (light) chain. It is expressed on B-cells, activated T-cells, monocytes/macrophages, dendritic cells and other non-professional APCs. In conjunction with the CD3/TCR complex and CD4 molecules, HLA-DR is critical for efficient peptide presentation to CD4+ T cells. It is an excellent histiocytic marker in paraffin sections producing intense staining. True histiocytic neoplasms are similarly positive. HLA-DR antigens also occur on a variety of epithelial cells and their corresponding neoplastic counterparts. Loss of HLA-DR expression is related to tumor microenvironment and predicts adverse outcome in diffuse large B-cell lymphoma.
<b>Immunogen</b>	Activated human peripheral blood mononuclear cells
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 0.5 - 1.0 ug/ml, Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 0.25 - 0.5 ug/ml, Immunofluorescence 0.5 - 1.0 ug/ml, CyTOF-ready

**Application Notes**

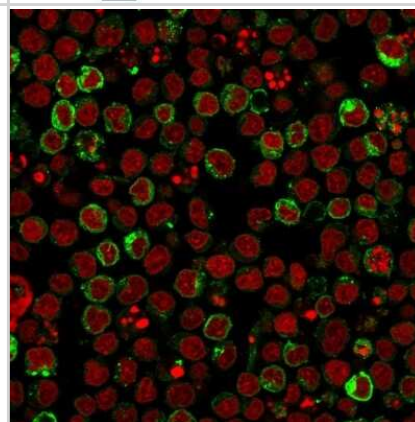
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

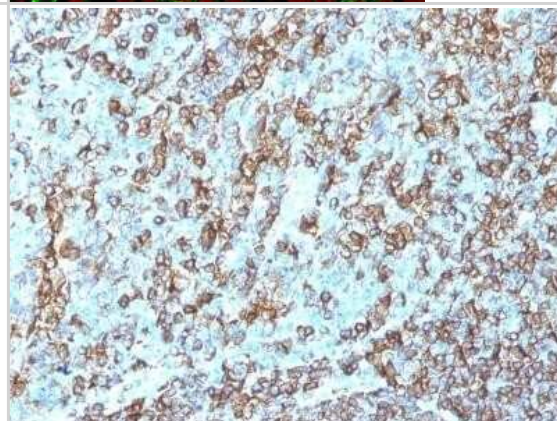
Western Blot: HLA-DR Antibody (LN-3) - Azide and BSA Free [NBP2-47670] - Western Blot Analysis of Ramos cell lysate using HLA-DR Mouse Monoclonal Antibody (LN-3).



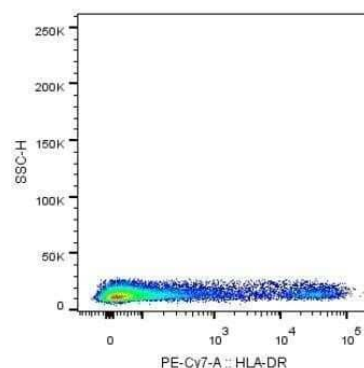
Immunocytochemistry/Immunofluorescence: HLA-DR Antibody (LN-3) - Azide and BSA Free [NBP2-47670] - Immunofluorescence staining of Ramos cells using HLA-DR Mouse Monoclonal Antibody (LN-3) followed by goat anti-Mouse IgG-CF488 (green). Nuclei are stained with Reddot.



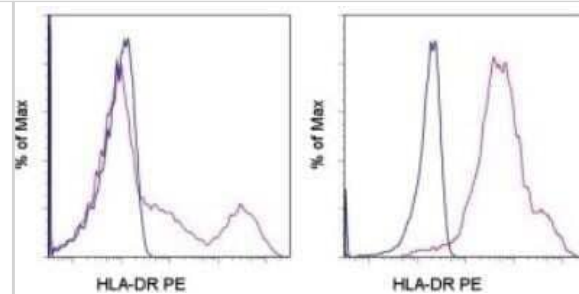
Immunohistochemistry-Paraffin: HLA-DR Antibody (LN-3) - Azide and BSA Free [NBP2-47670] - Human Tonsil stained with HLA-DRB Monoclonal Antibody (LN-3).



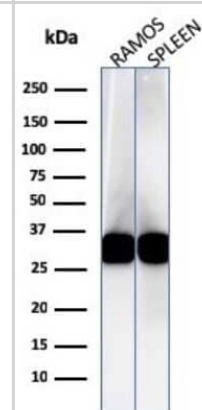
Flow Cytometry: HLA-DR Antibody (LN-3) - Azide and BSA Free [NBP2-47670] - Analysis using the PE/Cy7 conjugate of NBP2-34676. Staining of HLA-DR in human buffy coat using anti-HLA-DR antibody. The primary antibody was used at a dilution of 1:100 and incubated for 25 min at 4C in 2% human serum, 0.5mM EDTA in DPBS. Image from verified customer review.



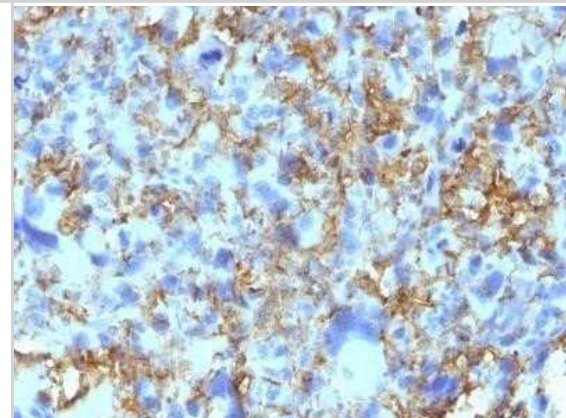
Western Blot: HLA-DR Antibody (LN-3) - Azide and BSA Free [NBP2-47670] - Analysis using the PE conjugate of NBP2-34676. Staining of normal human peripheral blood cells with Mouse IgG2b K Isotype Control PE (blue histogram) or Anti-Human HLA-DR PE (purple histogram). Cells in the lymphocyte (left) or monocyte (right) gate were



Western Blot: HLA-DR Antibody (LN-3) - Azide and BSA Free [NBP2-47670] - Western Blot Analysis of Ramos cell and human spleen lysate using HLA-DR Mouse Monoclonal Antibody (LN-3).



Immunohistochemistry-Paraffin: HLA-DR Antibody (LN-3) - Azide and BSA Free [NBP2-47670] - Human Histiocytoma stained with HLA-DRB Monoclonal Antibody (LN-3).





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### Products Related to NBP2-47670-0.1mg

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
210-TA-005	TNF-alpha [Unconjugated]

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### 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.

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