

# Product Datasheet

## CTLA-4 Antibody (BNI3) - BSA Free NB100-64849-0.1mg

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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**NB100-64849-0.1mg**

CTLA-4 Antibody (BNI3) - BSA Free

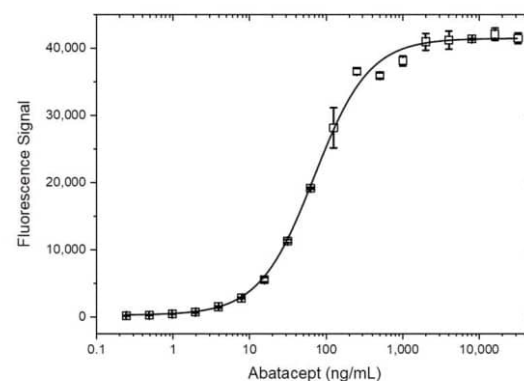
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	BNI3
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG2a
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	1493
<b>Gene Symbol</b>	CTLA4
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	NB100-64849 recognizes the human CD152 cell surface antigen, also known as CTLA-4 (cytotoxic T-lymphocyte-associated antigen 4). CD152 is a 45kD glycoprotein, expressed normally as a disulphide-linked homodimer. It is expressed transiently on the surface of T cells following activation (peaking at 3 days), but is often present with the cytoplasm. CD152 is a ligand for CD80 and CD86, and is important in cellular interactions during the immune response.
<b>Immunogen</b>	Human CTLA-4/human IgG heavy chain fusion protein
<b>Product Application Details</b>	
<b>Applications</b>	ELISA, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Immunofluorescence
<b>Recommended Dilutions</b>	Flow Cytometry Neat - 1:10, ELISA, Immunohistochemistry 1:10 - 1:500, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen 5 ug/mL - 50 ug/mL, Immunofluorescence
<b>Application Notes</b>	Use in IHC-P reported in scientific literature (PMID:34513744). Membrane permeabilization is required for Flow Cytometry. The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. The use of acetone fixation for frozen sections is recommended.



## Images

### ELISA: CTLA-4 Antibody (BNI3) [NB100-64849] - Human Anti-Abatacept Antibody bridging ELISA for Pharmacokinetic (PK) assay development

A microtiter plate was coated overnight with Mouse Anti-Human CD152 Antibody, clone BNI3 at a concentration of 1 µg/ml. After washing and blocking with PBST + 5% BSA, 10% human serum was added spiked with increasing concentrations of abatacept. Detection was performed using HRP conjugated Human Anti-Abatacept Antibody, clone AbD37058ia at a concentration of 2 µg/ml in HISPEC Assay Diluent followed by QuantaBlu Fluorogenic Peroxidase Substrate. Data are shown as the mean of three measurements. HRP conjugation of the antibody used in this assay was performed using a LYNX Rapid HRP Antibody Conjugation Kit.



## Publications

Lu B, Lu T, Shi J et al. Basic Transcription Factor 3 Like 4 Enhances Malignant Phenotypes through Modulating Tumor Cell Function and Immune Microenvironment in Glioma. *The American journal of pathology* 2024-04-22 [PMID: 38320629]

Dai T, Ye L, Yu H et al. Regulation Network and Prognostic Significance of Aldo-Keto Reductase (AKR) Superfamily Genes in Hepatocellular Carcinoma *Journal of hepatocellular carcinoma* 2021-08-30 [PMID: 34513744] (IHC-P, Human)

Jiang S, Zhang Y, Zhang X Et al. GARP Correlates With Tumor-Infiltrating T-Cells and Predicts the Outcome of Gastric Cancer *Frontiers in immunology* 2021-08-06 [PMID: 34421887] (IHC-P, Human)

Santoni G, Amantini C, Morelli MB et al. High CTLA-4 expression correlates with poor prognosis in thymoma patients. *Oncotarget* 2018-03-30 [PMID: 29682176] (IF/IHC, Human)



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### **Products Related to NB100-64849-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)
NBP2-22987	Recombinant Human CTLA-4 His Protein

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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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