

# Product Datasheet

## EMMPRIN/CD147 Antibody (OX-47) - BSA Free NB100-64848

Unit Size: 0.1 ml

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

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**NB100-64848**

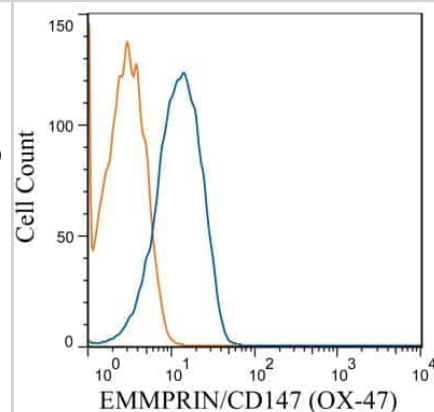
EMMPRIN/CD147 Antibody (OX-47) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<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>	OX-47
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	682
<b>Gene Symbol</b>	BSG
<b>Species</b>	Rat
<b>Specificity/Sensitivity</b>	NB100-64848 recognizes a membrane glycoprotein of MW 42-48 kD expressed at high levels on activated lymphocytes but lower levels on resting cells. The antigen is also present on some endothelia. The antigen contains two Ig-like domains and an unusual transmembrane domain with a charged residue. It is abundant on activated lymphocytes: it is the homologue of the chicken blood brain barrier antigen HT7.
<b>Immunogen</b>	T blasts from a mixed lymphocyte reaction.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 1:100 - 1:2000, Flow Cytometry 1 ug/mL, Immunohistochemistry 1:100 - 1:500, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 1:100 - 1:500, Immunohistochemistry-Frozen 1:100 - 1:500, CyTOF-ready

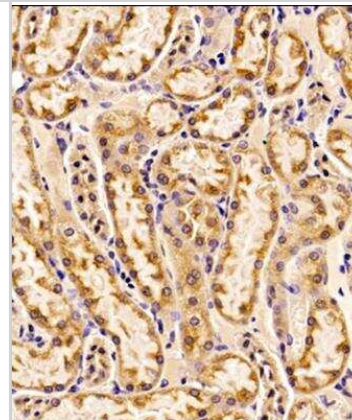


## Images

Flow Cytometry: EMMPRIN/CD147 Antibody (OX-47) [NB100-64848] - Rat Splenocytes were stained with EMMPRIN/CD147 (OX-47) antibody NB100-64848 (blue) and a matched isotype control NBP2-27287 (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature. The antibodies were directly conjugated to Alexa Fluor 488.



Immunohistochemistry-Paraffin: EMMPRIN/CD147 Antibody (OX-47) [NB100-64848] - Analysis of FFPE tissue section of rat kidney using 1:100 dilution of CD147 antibody (clone OX-47). The staining was detected using HRP-labelled secondary antibody and DAB reagent which followed counterstaining of sections with hematoxylin. This antibody generated primarily a membrane staining with some cytoplasmic signal in the cuboidal epithelial cells of various tubules.



## Publications

Jin R, Xiao AY, Liu S et al. Taurine Reduces tPA (Tissue-Type Plasminogen Activator)-Induced Hemorrhage and Microvascular Thrombosis After Embolic Stroke in Rat Stroke 2018-07-01 [PMID: 29844028] (WB, Rat)

Crook K, Hunt SV. Enrichment of early fetal-liver hemopoietic stem cells of the rat using monoclonal antibodies against the transferrin receptor, Thy-1, and MRC-OX82. Dev Immunol. [PMID: 8924759] (FLOW, Rat)

Foda, H et al. Ventilator-induced lung injury upregulates activates gelatinases EMMPRIN. Am. J. Respir. Cell. Mol. Biol. 25: 717 - 724. 2001-01-01 [PMID: 11726397]

Cassella, JP et al. Ontogeny of four blood-brain barrier markers: an immunocytochemical comparison of pial cerebral cortical microvessels. J. Anat. 189: 407-15. 1996-01-01 [PMID: 8886962]

Paterson, DJ, Jefferies WA, Green, JR et al. Antigens of Activated rat T Lymphocytes including a molecule of 50,000 Mr detected only by CD4 positive T blasts. Mol. Immunol. 24: 1281. 1987-01-01 [PMID: 2828930]

Fossum S, Mallett S amp Barclay AN. The MRC OX-47 antigen is a member of the immunoglobulin superfamily with an unusual transmembrane sequencequot;. Eur. J. Immunol. 21: 671. 1991-01-01 [PMID: 2009910]



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### **Products Related to NB100-64848**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-34025PEP	EMMPRIN/CD147 Recombinant Protein Antigen

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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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