

# Product Datasheet

## CD45 Antibody (YKIX716.13) - BSA Free NB100-65906-0.1mg

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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### Publications: 5

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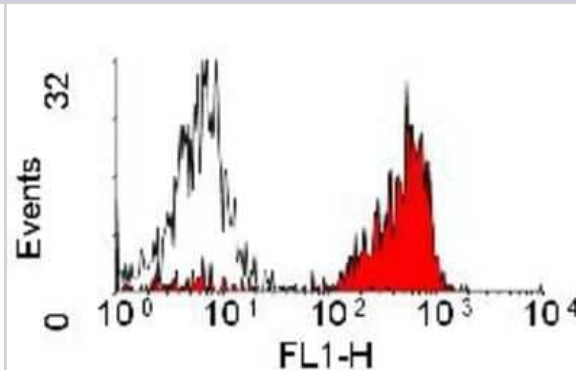
**NB100-65906-0.1mg**

CD45 Antibody (YKIX716.13) - BSA Free

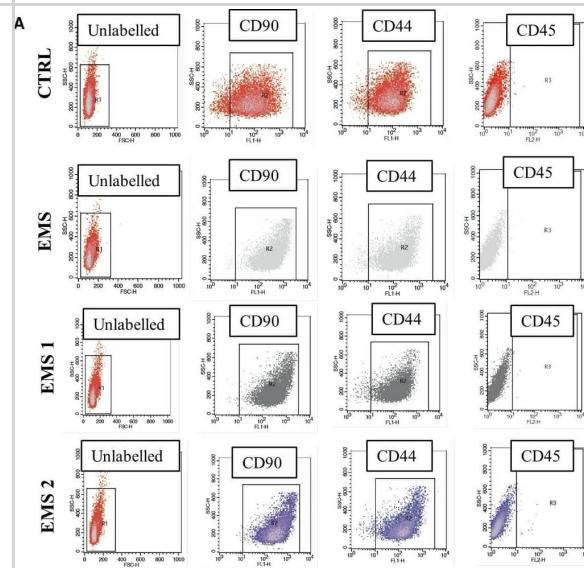
| <b>Product Information</b>         |   |
|------------------------------------|---|
| <b>Unit Size</b>                   | 0.1 mg  |
| <b>Concentration</b>               | 1.0 mg/ml   |
| <b>Storage</b>                     | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.  |
| <b>Clonality</b>                   | Monoclonal  |
| <b>Clone</b>                       | YKIX716.13  |
| <b>Preservative</b>                | 0.09% Sodium Azide  |
| <b>Isotype</b>                     | IgG2b   |
| <b>Purity</b>                      | Protein G purified  |
| <b>Buffer</b>                      | PBS   |
| <b>Target Molecular Weight</b>     | 147 kDa   |
| <b>Product Description</b>         |   |
| <b>Description</b>                 | Fusion Partners: Spleen cells from immunised DA rats were fused with cells of the Y3/Ag1.2.3 rat myeloma cell line.   |
| <b>Host</b>                        | Rat   |
| <b>Gene ID</b>                     | 5788  |
| <b>Gene Symbol</b>                 | PTPRC   |
| <b>Species</b>                     | Canine  |
| <b>Reactivity Notes</b>            | CD45 Antibody (YKIX716.13) shows reactivity with Equine as reported in multiple pieces of scientific literature.  |
| <b>Specificity/Sensitivity</b>     | CD45 Antibody (YKIX716.13) recognizes canine CD45 also known as leukocyte common antigen lustered as Canine CD45 in the First Canine Leukocyte Antigen Workshop. CD45 is expressed on all leukocytes in canine peripheral blood and may be against CD45RB isoform. This antibody reacts with CD45 on all outbred mongrels and beagles tested. |
| <b>Immunogen</b>                   | Canine thymocytes   |
| <b>Product Application Details</b> |   |
| <b>Applications</b>                | Flow Cytometry, Immunoprecipitation   |
| <b>Recommended Dilutions</b>       | Flow Cytometry 1:50-1:100, Immunoprecipitation 1:10-1:500   |

## Images

Flow Cytometry: CD45 Antibody (YKIX716.13) [NB100-65906] - Staining of canine peripheral blood lymphocytes with rat anti-canine CD45 antibody (YKIX716.13) [NB100-65906], using F(ab')<sub>2</sub> rabbit anti rat IgG: FITC (STAR17B) as a secondary antibody.



Flow Cytometry: CD45 Antibody (YKIX716.13) [NB100-65906] - Immunophenotyping & multipotency assay. Representative dot plots from flow cytometry analysis (A). Expression of surface antigens were investigated in cells cultured in control & AZA/RES supplemented medium. Isolated cells were characterized by the expression of CD90 & CD44 while lacked the expression of CD45 hematopoietic marker (B). Multipotency of isolated cells was confirmed by three lineage differentiation (C). In order to confirm formation of proteoglycans during chondrogenesis cells were stained with Safranin O. Intracellular lipid droplets were visualized by Oil Red O while mineralized matrix formed during osteogenesis with Alizarin Red. Magnification  $\times 100$ , scale bars: 250  $\mu\text{m}$ . Results expressed as mean  $\pm$  SD. Statistical significance indicated as asterisk (\*) when comparing the result to ASCCTRL, & as hashtag (#) when comparing to ASCEMS. ####P < 0.001 Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30370650>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

L Bourebaba, I Michalak, M Baouche, K Kucharczyk et al. Cladophora glomerata methanolic extract promotes chondrogenic gene expression and cartilage phenotype differentiation in equine adipose-derived mesenchymal stromal stem cells affected by metabolic syndrome Stem Cell Res Ther. [PMID: 31847882] (FLOW, Equine)

Marycz K, Houston J, Weiss C et al 5-Azacytidine and Resveratrol Enhance Chondrogenic Differentiation of Metabolic Syndrome-Derived Mesenchymal Stem Cells by Modulating Autophagy. Oxid Med Cell Longev. 2019-05-12 [PMID: 31214275] (FLOW, Equine)

### Details:

Citation using the Allophycocyanin version of this antibody.

Bourebaba L, Bedjou F, Rocken M, Marycz K Nortropane alkaloids as pharmacological chaperones in the rescue of equine adipose-derived mesenchymal stromal stem cells affected by metabolic syndrome through mitochondrial potentiation, endoplasmic reticulum stress mitigation and insulin resistance all Stem Cell Res Ther 2019-06-18 [PMID: 31215461] (FLOW, Equine)

Kornicka k, Szłapka-kosarzewska J, Smieszek A, Marycz k. 5-Azacytidine and resveratrol reverse senescence and ageing of adipose stem cells via modulation of mitochondrial dynamics and autophagy. J. Cell. Mol. Med. 2018-10-28 [PMID: 30370650] (FLOW, Equine)

K Marycz, C Weiss, A Smieszek, K Kornicka Evaluation of Oxidative Stress and Mitophagy during Adipogenic Differentiation of Adipose-Derived Stem Cells Isolated from Equine Metabolic Syndrome (EMS) Horses Stem Cells Int. 2018-01-01 [PMID: 29977307] (FLOW, Equine)



### **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 NB100-65906-0.1mg**

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|                |  |
|----------------|--|
| HAF005         | Goat anti-Rat IgG Secondary Antibody [HRP]           |
| F0105B         | Goat anti-Rat IgG Secondary Antibody [Phycoerythrin] |
| DDXCR03        | Rat IgG2b Isotype Control                            |
| NB100-65906APC | CD45 Antibody (YKIX716.13) [Allophycocyanin]         |

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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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