9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

10-4194: Monoclonal Antibody to Rat NKp46 (Clone: WEN23)

Clonality :	Monoclonal
Clone Name :	WEN23
Application :	Functional Assay,IP,IHC,FACS,WB
Reactivity :	Rat
Conjugate :	Unconjugated
Gene :	Ncr1
Gene ID :	117547.
Uniprot ID :	Q9Z0H5
Format :	Purified
Alternative Name :	Natural cytotoxicity triggering receptor 1, Activating receptor 1, Lymphocyte antigen 94 homolog, NK receptor KILR-1, Natural killer cell p46-related protein, CD335
Isotype :	Mouse IgG1, Kappa
Immunogen Information :	Recombinant rat NKp46 ectodomain coupled to the Fc portion of mouse IgG2b was used as the immunogen for this antibody.

Description

Rat NKp46 is an activating receptor expressed on all NK cells in all rat strains tested. NKp46 is the defining surface marker for rat NK cells. No expression of NKp46 has so far been reported on non-NK cells in the rat. NKp46 associates with the activating adaptor proteins FcepsilonRIgamma and CD3zeta and activates NK cell cytotoxicity and IFNgamma production.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles

Application Note

Facs anaysis: 1-2 µg/10^6 Cells, Western blot analysis: 1-2 µg/ml, Immunoprecipitation: 1-2 µg/ml

Reference: Ingunn H. Westgaard, Siri F. Berg, John T. Vaage, Lawrence L. Wang, Wayne M. Yokoyama, Erik Dissen, and Sigbjørn Fossum , Rat NKp46 activates natural killer cell cytotoxicity and is associated with Fc□RI and CD3, September 8, 2004 as DOI:10.1189/jlb.0903428

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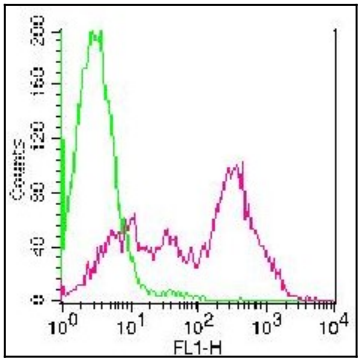


Figure-1: Cell surface staining of rat splenocytes. Green represents isotype control, red represents anti-rat NKP46 (10-4194) antibody. 0.2 µg antibody was used. Goat anti-mouse FITC was used as secondary antibody.

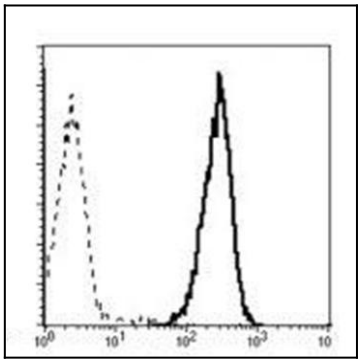


Figure-2: Flow cytometry analysis of anti-NKp46 (Cat.No.: 10-4194) in IL-2-stimulated Rat NK cells. Black line represent anti-NKp46 (Clone:WEN23), dotted line represent Secondary antibody control.

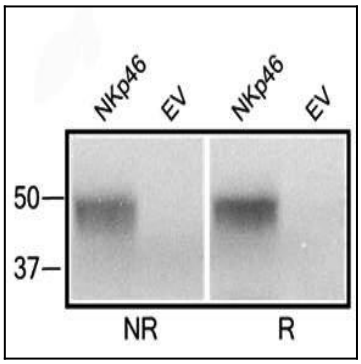


Figure-3: Western blot analysis of anti-NKp46 in 293T cells transfected with a rat NKp46 expression construct and empty vector (EV) lysates at Non-reducing (NR) and reducing (R) condition.

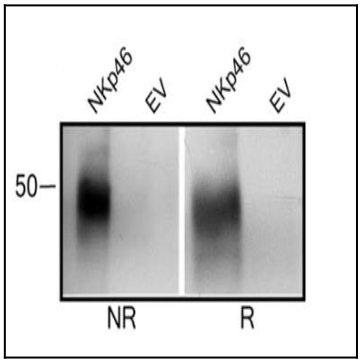


Figure 4: Immuno precipitation of anti-NKp46 from surface biotinylated, transiently transfected 293T cells using HRP-conjugated streptavidin under Non-reducing (NR) and reducing (R) conditions.

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