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## **Human NKp44/NCR2 antibody**

Catalog Number: ATGA0322

#### **PRODUCT INFORMATION**

#### Catalog number

ATGA0322

#### Clone No.

AT1G6

#### **Product type**

Monoclonal Antibody

#### UnitProt No.

095944

#### **NCBI Accession No.**

NP 004819

#### **Alternative Names**

Natural cytotoxicity triggering receptor 2 isoform 1, CD336, LY95, NK-p44 NKP44, ANK0501

#### **Additional Information**

ANK0501 has been replaced with a catalog number ATGA0322.

#### **PRODUCT SPECIFICATION**

#### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human NKp44 (19-130aa) purified from E. coli

#### Isotype

IgG2a kappa

#### **Purification Note**

By protein-A affinity chromatography

#### **Application**

ELISA, WB, ICC/IF, FACS

#### Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain



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optimal results.

#### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

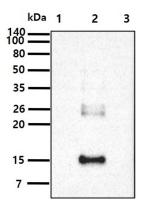
NKp44 (NCR2) is a member of the natural cytotoxicity receptor (NCR) family that is expressed on activated human NK cells. NKp44 displays a single extracellular Ig-like V domain and a transmembrane portion containing the charged residue (Lysine), likely involved in the association with KARAP/DAP12 molecules.

#### **General References**

Biassoni. R., et al., (2003) J Cell Mol Med 7: 376-387. Kerry. S.C., et al., (2004) Journal of Immunology 172: 899-906.

#### **DATA**

#### Western blot analysis (WB)



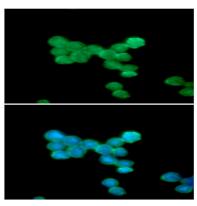
The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NKp44/NCR2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant human NKp30 protein

Lane 2.: Recombinant human NKp44 protein

Lane 3.: Recombinant human NKp46 protein

#### Immunocytochemistry/Immunofluorescence (ICC/IF)



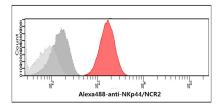
ICC/IF analysis of NKp44/NCR2 in Jurkat cells. The cell was stained with ATGA0322 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of NKp44/NCR2 in Jurkat cells. The cell was stained with ATGA0322 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

