

# Human NBL1 antibody

Catalog Number: ATGA0267

## PRODUCT INFORMATION

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**Catalog number**

ATGA0267

**Clone No.**

AT38G8

**Product type**

Monoclonal Antibody

**UnitProt No.**

P41271

**NCBI Accession No.**

NP\_005371

**Alternative Names**

Neuroblastoma suppressor of tumorigenicity 1, D1S1733E, DAN, DAND1, NB, NO3

## PRODUCT SPECIFICATION

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**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 NBL1 (18-181aa) purified from E. coli

**Isotype**

IgG1 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 optimal results.

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## 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

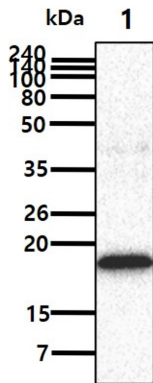
NBL1 is the founding member of the evolutionarily conserved CAN (Cerberus and DAN) family of proteins, which contain a domain resembling the CTCK (C-terminal cystine knot-like) motif found in a number of signaling molecules. These proteins are secreted, and act as BMP (bone morphogenetic protein) antagonists by binding to BMPs and preventing them from interacting with their receptors. They may thus play an important role during growth and development and alternatively spliced transcript variants have been identified for this gene. Also, as a tumor suppressor gene of neuroblastoma may play an important role in preventing cells from entering the final stage (G1/S) of the transformation process. Read-through transcripts between this locus and the upstream mitochondrial inner membrane organizing system 1 have been observed.

### General References

Olakowski, M., et al. (2009) *Folia Histochem Cytobiol* 47(2): 249-55.  
Shaikhibrahim, Z., et al. (2011) *Int J Mol Med* 28(4): 605-11.

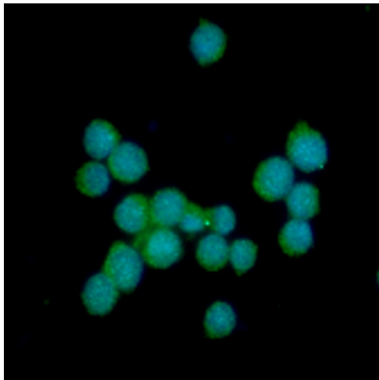
## DATA

### Western blot analysis (WB)



The cell lysates(30ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NBL1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.  
Lane 1.: Jurkat cell lysate

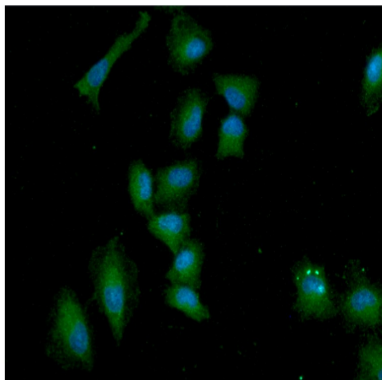
### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of NBL1 in Jurkat cells. The cell was stained with ATGA0267 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

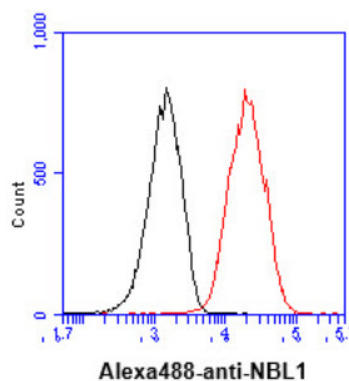
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ICC/IF analysis of NBL1 in A549 cells. The cell was stained with ATGA0267 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

### Flow cytometry (FACS)



Flow cytometry analysis of NBL1 in Jurkat cell line, staining at 2-5ug for  $1 \times 10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).