Human NBL1 antibody

Catalog Number: ATGA0267

PRODUCT INFORMATION

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

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

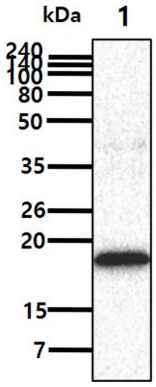
NBL1 is the founding member of the evolutionarily conserved CAN (Cerberus and DAN) family of proteins, which contain a domain resembling the CTCK (C-terminal cystine knot-like) motif found in a number of signaling molecules. These proteins are secreted, and act as BMP (bone morphogenetic protein) antagonists 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.

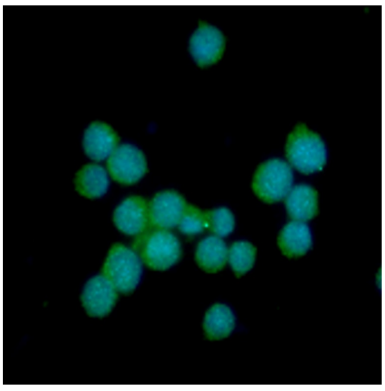
DATA

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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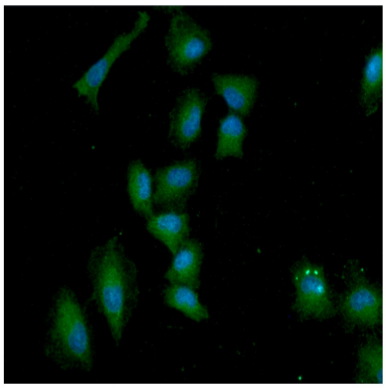
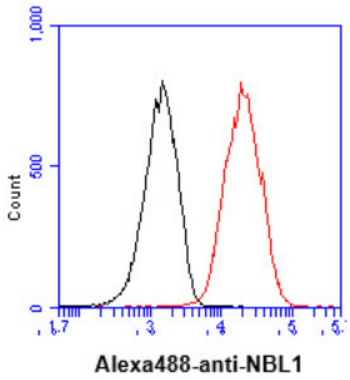


ICC/IF analysis of NBL1 in A549 cells. The cell was stained with ATGA0267 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of NBL1 in Jurkat cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).