# NKMAXBIO We support you, we believe in your research

# **Human NCS1 antibody**

Catalog Number: ATGA0442

## **PRODUCT INFORMATION**

### Catalog number

ATGA0442

#### Clone No.

AT11B8

### **Product type**

Monoclonal Antibody

#### UnitProt No.

P62166

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

NP 055101

#### **Alternative Names**

Neuronal calcium sensor 1, Frequenin homolog, FLuP, FREQ, Neuronal calcium sensor 1 Flup, Freq, frequenin (Drosophila) homolog, Frequenin-like protein, NCS1, Neuronal Calcium Sensor 1.

## **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 NCS1 (1-190aa) purified from E. coli

### Isotype

IgG1 kappa

#### **Purification Note**

By protein-A affinity chromatography

# **Application**

ELISA, WB, FACS

#### Usage

The antibody has been tested by ELISA, Western blot analysis and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



# NKMAXBio We support you, we believe in your research

# **Human NCS1 antibody**

Catalog Number: ATGA0442

#### **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**

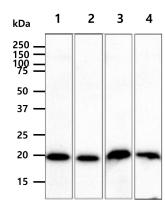
NCS1 is a member of the neuronal calcium sensor gene family, which encode calcium-binding proteins expressed predominantly in neurons. This protein regulates G protein-coupled receptor phosphorylation in a calcium-dependent manner and can substitute for calmodulin. It is associated with secretory granules and modulates synaptic transmission and synaptic plasticity. Multiple transcript variants encoding different isoforms have been found for this gene.

#### **General References**

Nakamura TY., et al (2001) Proc. Natl. Acad. Sci. u.S.A. 98: 12808-12813. Bahi N., et al (2003) Hum. Mol. Genet. 12: 1415-1425.

#### **DATA**

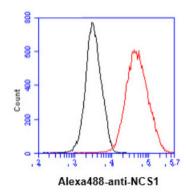
## Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NCS1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate Lane 2.: K562 cell lysate Lane 3.: LnCap cell lysate Lane 4.: HeLa cell lysate

# Flow cytometry (FACS)



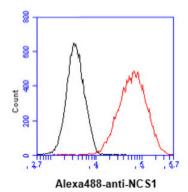
Flow cytometry analysis of NCS1 in A549 cell line, staining at 2-5ug for  $1x10^6$  cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



# NKMAXBio We support you, we believe in your research

# **Human NCS1 antibody**

Catalog Number: ATGA0442



Flow cytometry analysis of NCS1 in HeLa cell line, staining at 2-5ug for  $1\times10^6$  (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

