Human FUS2/NAA80 antibody

Catalog Number: ATGA0164

PRODUCT INFORMATION

Catalog number
ATGA0164

Clone No.
AT2F4

Product type
Monoclonal Antibody

UnitProt No.
Q93015

NCBI Accession No.
NP_036323

Alternative Names
Protein fus 2, Protein fusion-2, FuS-2, NAT6, N acetyltransferase 6

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 FUS2 (1-308aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-G 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

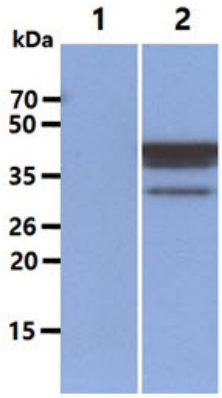
Vertebrate FUS2 genes, which are known to be putative tumor suppressor gene, contain several important domains such as the catalytic N-acetyltransferase (NAT) domain. NAT domain is essential enzymes involved in several sophisticated cellular processes such as N-acetylation, O-acetylatin. NAT enzymes may be involved in susceptibility to cancer including colorectal cancer because of the presence of carcinogenic heterocyclic amines in some cooked foods. FUS2 was physically localized to the cytoplasm. Also, FUS2 showed the actin dependent movement, closely related to the polarization in the budding yeast, Saccharomyces cerevisiae.

General References

Duh FM, et al., (2004) Mol Cell Probes 18(1):39-44.
Gatphayak K, et al., (2004) Gene 337:105-111.
Zegerman P, et al., (2000) Oncogene 19(1):161-163.

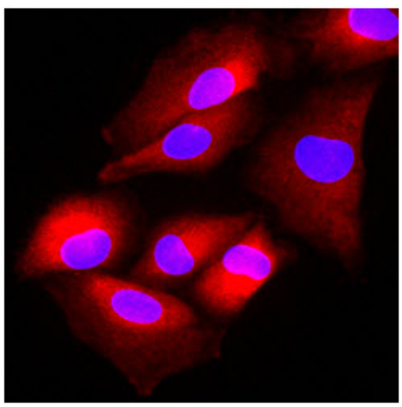
DATA

Western blot analysis (WB)



The cell lysates(1ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human FUS2 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.: FUS2 Transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



Immunofluorescence of human A549 cells stained with Hoechst 33342 (Blue) and monoclonal anti-human FUS2 antibody (1:500) with Texas Red (red).

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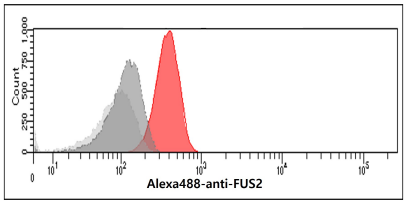
Flow cytometry (FACS)



Flow cytometry analysis of FUS2 in Balb/3T3 cells. The cell was stained with ATGA0164 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).