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NAA10

Purified Mouse Monoclonal Antibody Catalog # AO2506a

Product Information

Application WB, IHC, ICC, E

Primary Accession P41227

Reactivity Human, Mouse, Monkey

HostMouseClonalityMonoclonalClone Names3G3B9IsotypeMouse IgG1Calculated MW26459

Immunogen Purified recombinant fragment of human NAA10 (AA: 111-235) expressed in E.

Coli.

Formulation Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID 8260

Other Names TE2; ARD1; NATD; ARD1A; ARD1P; OGDNS; DXS707; MCOPS1

Dilution WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~ 1/200 - 1/1000 E~~ 1/10000

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions NAA10 is for research use only and not for use in diagnostic or therapeutic

procedures.

Protein Information

Name NAA10

Synonyms ARD1, ARD1A, TE2

Function Catalytic subunit of N-terminal acetyltransferase complexes which display

alpha (N-terminal) acetyltransferase activity (PubMed: 15496142, PubMed: 19420222, PubMed: 19826488, PubMed: 20145209, PubMed: 20154145, PubMed: 25489052, PubMed: 27708256,

PubMed: <u>29754825</u>, PubMed: <u>32042062</u>). Acetylates amino termini that are devoid of initiator methionine (PubMed: <u>19420222</u>). The alpha (N-terminal) acetyltransferase activity may be important for vascular, hematopoietic and

neuronal growth and development. Without NAA15, displays epsilon (internal) acetyltransferase activity towards HIF1A, thereby promoting its degradation (PubMed:12464182). Represses MYLK kinase activity by acetylation, and thus represses tumor cell migration (PubMed:19826488). Acetylates, and stabilizes TSC2, thereby repressing mTOR activity and suppressing cancer development (PubMed:20145209). Acetylates HSPA1A and HSPA1B at 'Lys-77' which enhances its chaperone activity and leads to preferential binding to co-chaperone HOPX (PubMed:27708256). Acetylates HIST1H4A (PubMed:29754825). Acts as a negative regulator of sister chromatid cohesion during mitosis (PubMed:27422821).

Cellular Location

Cytoplasm. Nucleus. Note=Also present in the free cytosolic and cytoskeleton-bound polysomes.

Tissue Location

Ubiquitous..

References

1.Gene. 2015 Aug 10;567(2):103-31.2.PLoS One. 2014 Aug 18;9(8):e105185.

Images

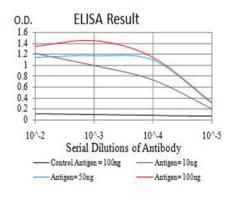


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

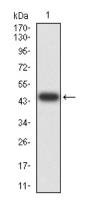
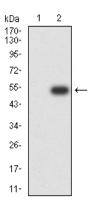


Figure 2:Western blot analysis using NAA10 mAb against human NAA10 (AA: 111-235) recombinant protein. (Expected MW is 47.2 kDa)

Figure 3:Western blot analysis using NAA10 mAb against HEK293 (1) and NAA10 (AA: 111-235)-hIgGFc transfected HEK293 (2) cell lysate.



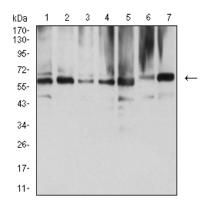


Figure 4:Western blot analysis using NAA10 mouse mAb against COS7 (1), HEK293 (2), HL-60 (3), MCF-7 (4), Hela (5), NIH/3T3 (6), and C2C12 (7) cell lysate.

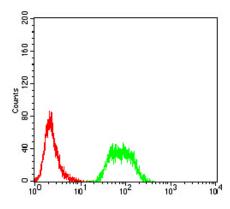


Figure 6:Flow cytometric analysis of SMMC-7721 cells using NAA10 mouse mAb (green) and negative control (red).

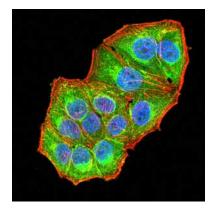


Figure 5:Immunofluorescence analysis of Hela cells using NAA10 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.