

NAA10
Purified Mouse Monoclonal Antibody
Catalog # AO2506a

Specification

NAA10 - Product Information

Application	E, WB, ICC
Primary Accession	P41227
Reactivity	Human, Mouse, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	26.5kDa KDa

Immunogen

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

Formulation

Purified antibody in PBS with 0.05% sodium azide

NAA10 - Additional Information

Gene ID 8260

Other Names

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

Dilution

E~~ 1/10000
WB~~ 1/500 - 1/2000
ICC~~ 1/200 - 1/1000

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.

NAA10 - Protein Information

Name NAA10

Synonyms ARD1, ARD1A, TE2

Function

Catalytic subunit of N-terminal acetyltransferase complexes which display alpha (N-terminal) acetyltransferase activity (PubMed:

target="_blank">15496142, PubMed:19420222, PubMed:19826488, PubMed:20145209, PubMed:20154145, PubMed:25489052, PubMed:27708256, PubMed:29754825, PubMed:32042062). Acetylates amino termini that are devoid of initiator methionine (PubMed:19420222). 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..

NAA10 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NAA10 - Images



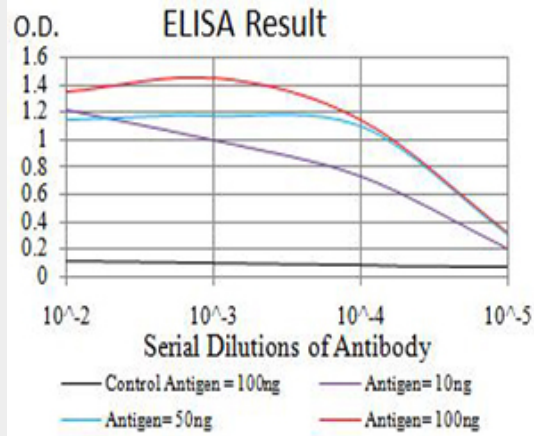


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

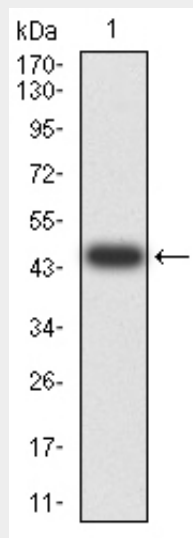


Figure 2: Western blot analysis using NAA10 mAb against human NAA10 (AA: 111-235) recombinant protein. (Expected MW is 47.2 kDa)

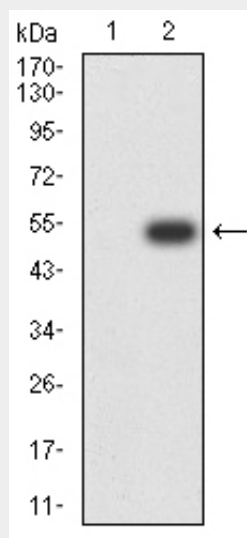


Figure 3: Western blot analysis using NAA10 mAb against HEK293 (1) and NAA10 (AA: 111-235)-hlgGfc transfected HEK293 (2) cell lysate.

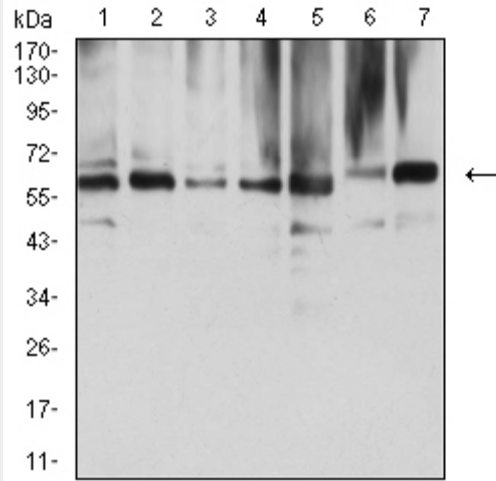


Figure 4: Western blot analysis using NAA10 mouse mAb against COS7 (1), HEK293 (2), HL-60 (3), MCF-7 (4), Hela (5), NIH/3T3 (6), and C2C12 (7) cell lysate.

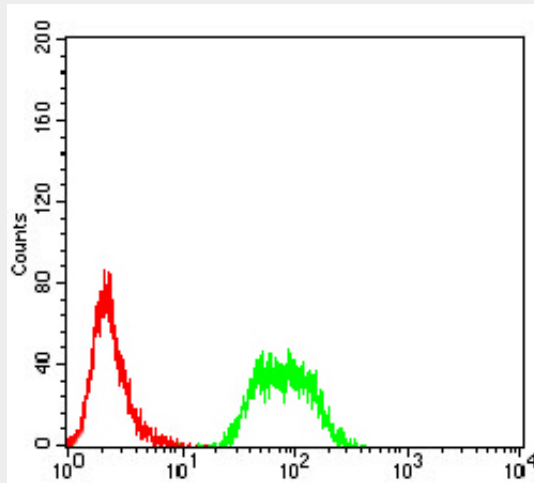


Figure 6: Flow cytometric analysis of SMMC-7721 cells using NAA10 mouse mAb (green) and negative control (red).



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)

NAA10 - References

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