

# NAA10

Purified Mouse Monoclonal Antibody

Catalog # AO2506a

## Product Information

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<b>Application</b>	WB, IHC, ICC, E
<b>Primary Accession</b>	<a href="#">P41227</a>
<b>Reactivity</b>	Human, Mouse, Monkey
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	3G3B9
<b>Isotype</b>	Mouse IgG1
<b>Calculated MW</b>	26459
<b>Immunogen</b>	Purified recombinant fragment of human NAA10 (AA: 111-235) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	8260
<b>Other Names</b>	TE2; ARD1; NATD; ARD1A; ARD1P; OGDNS; DXS707; MCOPS1
<b>Dilution</b>	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~ 1/200 - 1/1000 E~~ 1/10000
<b>Storage</b>	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.
<b>Precautions</b>	NAA10 is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	NAA10
<b>Synonyms</b>	ARD1, ARD1A, TE2
<b>Function</b>	Catalytic subunit of N-terminal acetyltransferase complexes which display alpha (N-terminal) acetyltransferase activity (PubMed: <a href="#">15496142</a> , PubMed: <a href="#">19420222</a> , PubMed: <a href="#">19826488</a> , PubMed: <a href="#">20145209</a> , PubMed: <a href="#">20154145</a> , PubMed: <a href="#">25489052</a> , PubMed: <a href="#">27708256</a> , PubMed: <a href="#">29754825</a> , PubMed: <a href="#">32042062</a> ). Acetylates amino termini that are devoid of initiator methionine (PubMed: <a href="#">19420222</a> ). 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

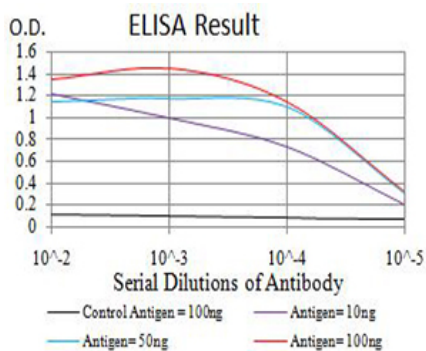


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

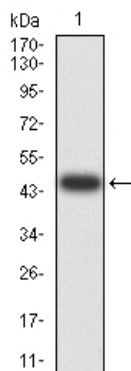


Figure 2:Western blot analysis using NAA10 mAb against human NAA10 (AA: 111-235) recombinant protein. (Expected MW is 47.2 kDa)

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

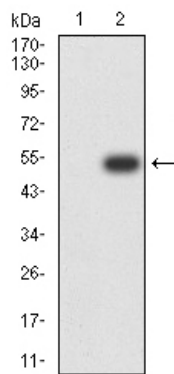


Figure 4: Western blot analysis using NAA10 mouse mAb against COS7 (1), HEK293 (2), HL-60 (3), MCF-7 (4), Hela (5), NIH/3T3 (6), and C2C12 (7) cell lysate.

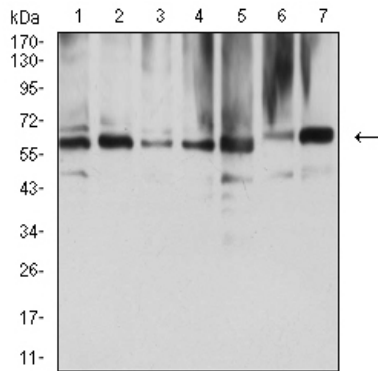


Figure 6: Flow cytometric analysis of SMMC-7721 cells using NAA10 mouse mAb (green) and negative control (red).

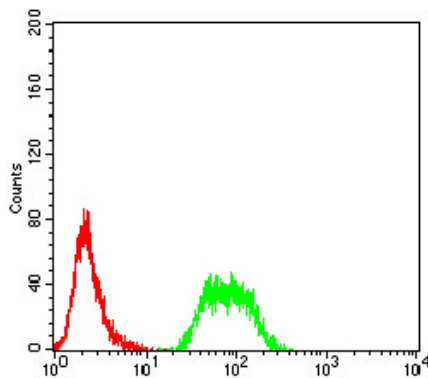


Figure 5: Immunofluorescence analysis of Hela cells using NAA10 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



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