10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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:<a href="http://www.uniprot.org/citations/15496142"

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 Cytomety
- Cell Culture

NAA10 - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

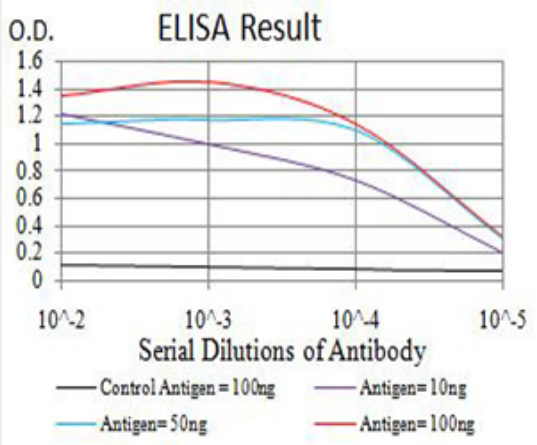

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

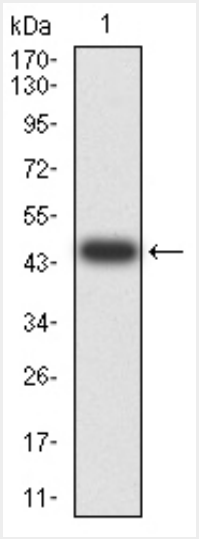

Figure 2:Western blot analysis using NAA10 mAb against human NAA10 (AA: 111-235) recombinant protein. (Expected MW is 47.2 kDa)

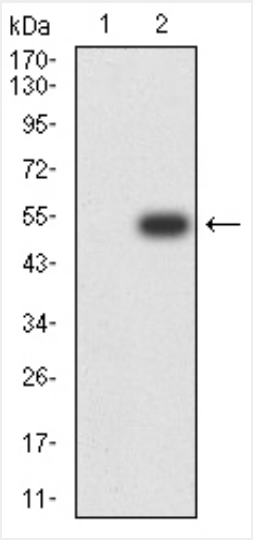

Figure 3:Western blot analysis using NAA10 mAb against HEK293 (1) and NAA10 (AA: 111-235)-hIgGFc transfected HEK293 (2) cell lysate.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

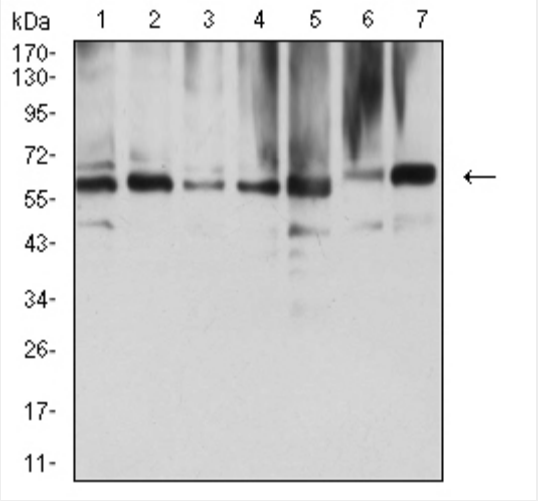

Figure 4:Western blot analysis using NAA10 mouse mAb against COS7 (1), HEK293 (2), HL-60 (3), MCF-7 (4), Hela (5), NIH/3T3 (6), and C2C12 (7) cell lysate.

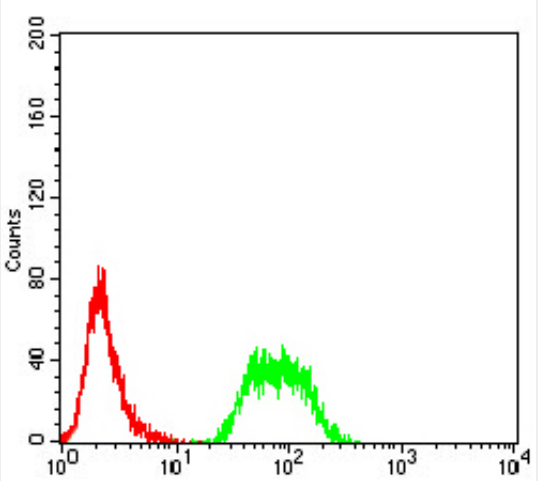

Figure 6:Flow cytometric analysis of SMMC-7721 cells using NAA10 mouse mAb (green) and negative control (red).

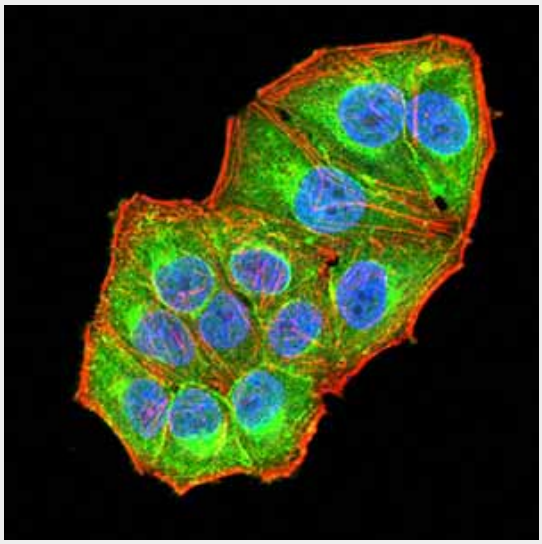

Figure 5:Immunofluorescence analysis of Hela cells using NAA10 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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.