

NAA10
Purified Mouse Monoclonal Antibody
Catalog # AO2505a**Specification**

NAA10 - Product Information

Application	WB, IHC, ICC, E
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

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.

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: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

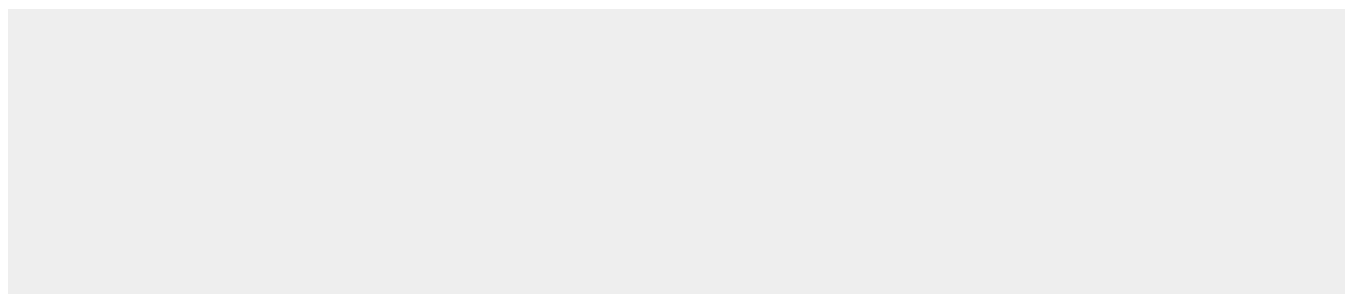
Ubiquitous..

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



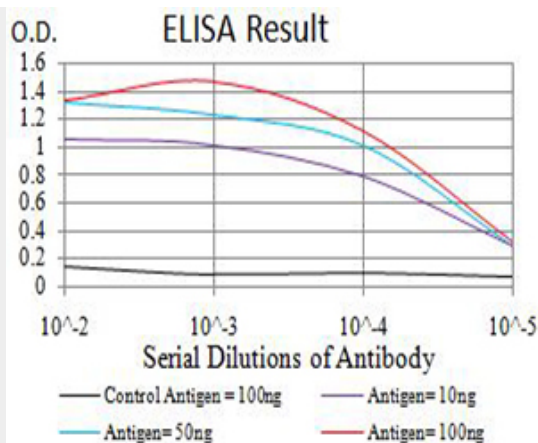


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

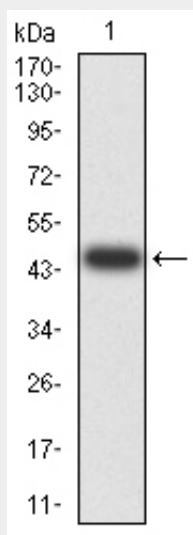


Figure 2: Western blot analysis using NAA10 mAb against human NAA10 (AA: 111-235) recombinant protein. (Expected MW is 47.2 kDa)

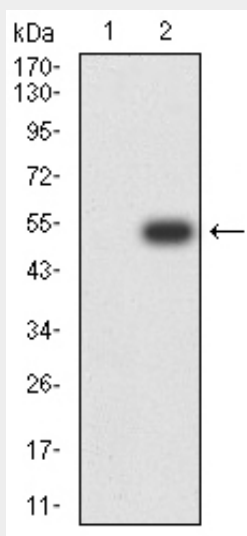


Figure 3: Western blot analysis using NAA10 mAb against HEK293 (1) and NAA10 (AA: 111-235)-hlgGfC transfected HEK293 (2) cell lysate.

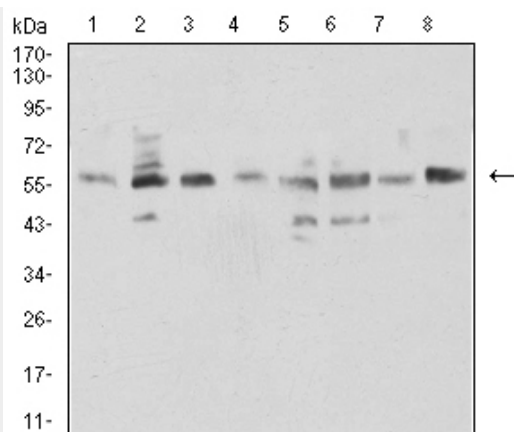


Figure 4: Western blot analysis using NAA10 mouse mAb against HCT116 (1), COS7 (2), HEK293 (3), HL-60 (4), MCF-7 (5), Hela (6), NIH/3T3 (7), and C2C12 (8) cell lysate.

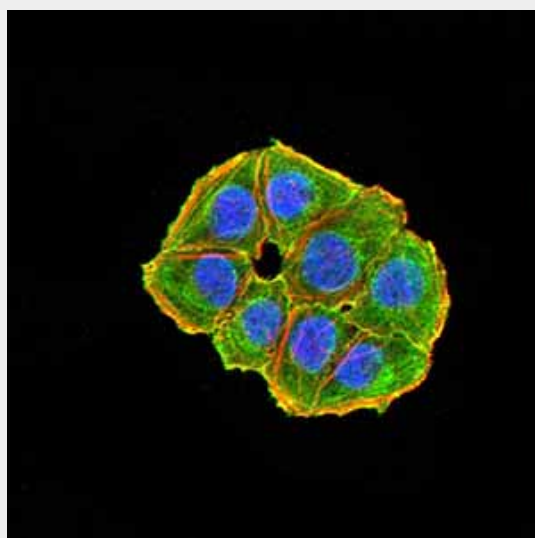


Figure 5: Immunofluorescence analysis of Hela cells using NAA10 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

NAA10 - References

1. Gene. 2015 Aug 10;567(2):103-31. 2. PLoS One. 2014 Aug 18;9(8):e105185.