

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

**Specification**

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**NAA10 - Product Information**

Application	<b>E, WB, ICC</b>
Primary Accession	<a href="#">P41227</a>
Reactivity	<b>Human, Mouse, Monkey</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>Mouse IgG1</b>
Calculated MW	<b>26.5kDa KDa</b>

**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</a>, PubMed:<a href="http://www.uniprot.org/citations/19420222" target="\_blank">19420222</a>, PubMed:<a href="http://www.uniprot.org/citations/19826488" target="\_blank">19826488</a>, PubMed:<a href="http://www.uniprot.org/citations/20145209" target="\_blank">20145209</a>, PubMed:<a href="http://www.uniprot.org/citations/20154145" target="\_blank">20154145</a>, PubMed:<a href="http://www.uniprot.org/citations/25489052" target="\_blank">25489052</a>, PubMed:<a href="http://www.uniprot.org/citations/27708256" target="\_blank">27708256</a>, PubMed:<a href="http://www.uniprot.org/citations/29754825" target="\_blank">29754825</a>, PubMed:<a href="http://www.uniprot.org/citations/32042062" target="\_blank">32042062</a>). Acetylates amino termini that are devoid of initiator methionine (PubMed:<a href="http://www.uniprot.org/citations/19420222" target="\_blank">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:<a href="http://www.uniprot.org/citations/12464182" target="\_blank">12464182</a>). Represses MYLK kinase activity by acetylation, and thus represses tumor cell migration (PubMed:<a href="http://www.uniprot.org/citations/19826488" target="\_blank">19826488</a>). Acetylates, and stabilizes TSC2, thereby repressing mTOR activity and suppressing cancer development (PubMed:<a href="http://www.uniprot.org/citations/20145209" target="\_blank">20145209</a>). Acetylates HSPA1A and HSPA1B at 'Lys-77' which enhances its chaperone activity and leads to preferential binding to co-chaperone HOPX (PubMed:<a href="http://www.uniprot.org/citations/27708256" target="\_blank">27708256</a>). Acetylates HIST1H4A (PubMed:<a href="http://www.uniprot.org/citations/29754825" target="\_blank">29754825</a>). Acts as a negative regulator of sister chromatid cohesion during mitosis (PubMed:<a href="http://www.uniprot.org/citations/27422821" target="\_blank">27422821</a>).

#### 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



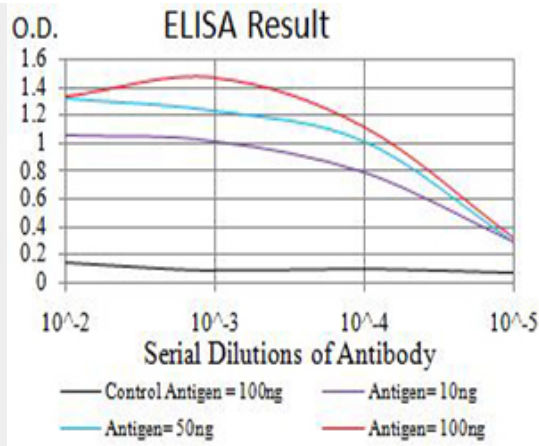


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

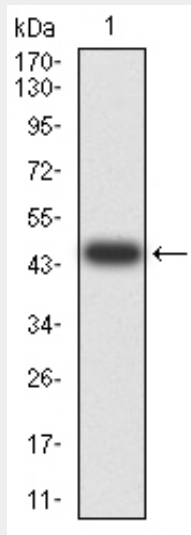


Figure 2: Western blot analysis using NAA10 mAb against human NAA10 (AA: 111-235) recombinant protein. (Expected MW is 47.2 kDa)

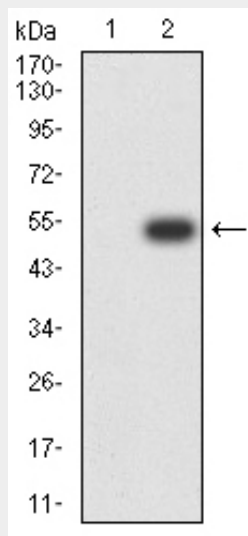


Figure 3: Western blot analysis using NAA10 mAb against HEK293 (1) and NAA10 (AA: 111-235)-hlgGfc transfected HEK293 (2) cell lysate.

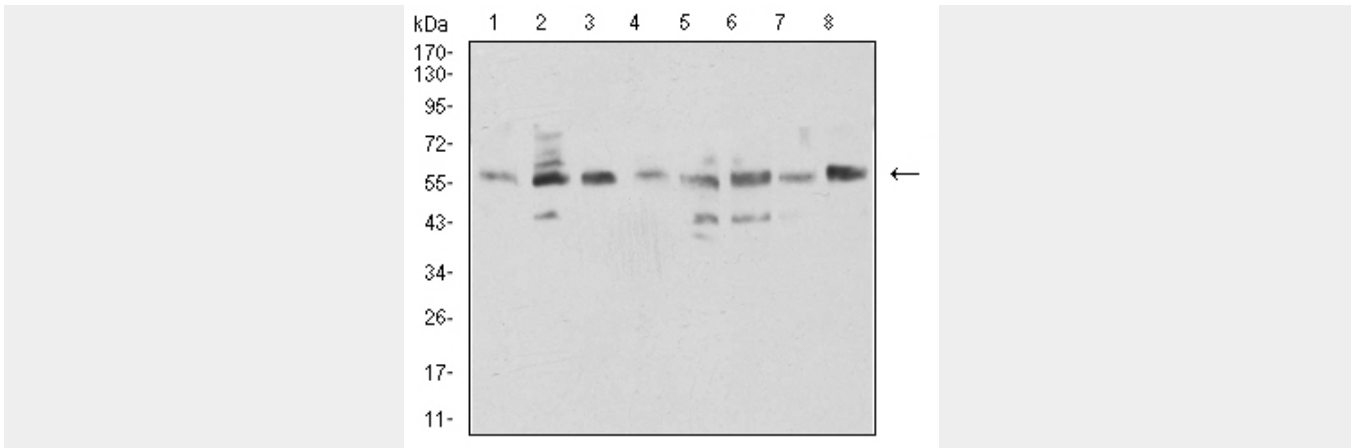


Figure 4:Western blot analysis using NAA10 mouse mAb against HCT116 (1), COS7 (2), HEK293 (3), HL-60 (4), MCF-7 (5), Hela (6), NIH/3T3 (7), and C2C12 (8) cell lysate.

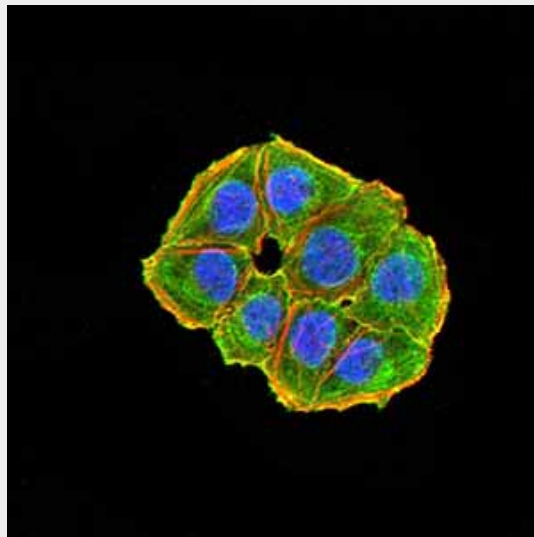


Figure 5:Immunofluorescence analysis of Hela cells using NAA10 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

**NAA10 - References**

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