

## Anti-NAA10/ARD1 Antibody (6X451)

## Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6X451
Purification:	Protein A

## Applications

Verified Activity:	<p>1. Immunofluorescence staining of Human ARD1A in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with mouse anti-Human ARD1A monoclonal antibody (1:60) at 37°C 1 hour. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-mouse IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm and nucleus.</p> <p>2. Flow cytometric analysis of Human ARD1A expression on HeLa cells. The cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with purified anti-Human ARD1A, then a PE-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.</p>
Application:	FCM, ICC/IF
Recommended	ICC-IF: 1:20-1:100; FCM: 1:25-1:100

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human ARD1 protein (TMPY-03339)
Antigen Species:	Human
Synonyms:	ARD1P; MCOPS1; NAA10; ARD1A; NATD; N(alpha)-acetyltransferase 10, NatA catalytic subunit; OGDNS; N(alpha)-acetyltransferase 10, NatA catalytic subunit; ARD1; DXS707; TE2

## Research Background

ARD1 is a member of the 2-kDa ARF protein family. It is a multifunctional protein. ARD1 has an 18-kDa ADP-ribosylation factor (ARF) domain at the C-terminus (amino acids 43-574), and a 46-kDa N-terminal domain (amino acids 1-42). The C-terminal region of ARD1 may be involved in the formation of both ARD1-ARD1 and ARD1-NAT1 complexes. ARD1 and NAT1 genes are required for the expression of an N-terminal protein acetyltransferase. This activity is required for full repression of the silent mating-type locus HML, for sporulation, and for entry into G. Recombinant ARD1 (amino acids 1-574) or its RING finger domain (amino acids 1-11) produced polyubiquitylated proteins when incubated in vitro with a mammalian E1, an E2 enzyme, ATP, and ubiquitin.

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