

For Research Use Only

# CoraLite®594-conjugated ASNA1 Monoclonal antibody

Catalog Number: CL594-66346



## Basic Information

Catalog Number:

CL594-66346

Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG7936

GenBank Accession Number:

BC002651

GeneID (NCBI):

439

UNIPROT ID:

O43681

Full Name:

arsA arsenite transporter, ATP-binding, homolog 1 (bacterial)

Calculated MW:

38.7 kDa

Observed MW:

37-41 kDa

Purification Method:

Protein G purification

CloneNo.:

1B7C11

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

## Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat, pig

Positive Controls:

IF/ICC : HEK-293 cells,

## Background Information

ASNA1 (also known as TRC40) is a highly conserved ATPase involved in efflux of arsenite and antimonite. Reduced ASNA1 expression is associated with significant inhibition of cell growth, increased apoptosis and increased sensitivity to arsenite. Thus ASNA1 is proposed to be a target to overcome resistance to cancer chemotherapy. In addition, ASNA1 has been identified as an ER targeting factor for tail-anchored proteins in the posttranslational membrane insertion pathway.

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

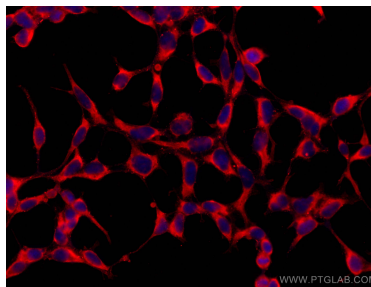
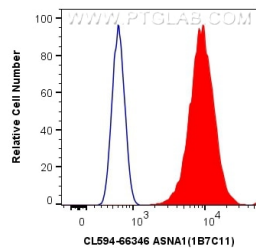
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## Selected Validation Data



1X10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.8  $\mu$ g CoraLite® 594 Anti-Human ASNA1 (CL594-66346, Clone:1B7C11) (red), or 0.8  $\mu$ g CoraLite® 594 Mouse IgG1 Isotype Control (MOPC-21) (CL594-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using CoraLite® 594 ASNA1 antibody (CL594-66346, Clone: 1B7C11 ) at dilution of 1:200.