

# CoraLite® Plus 488-conjugated NAT10 Recombinant antibody

Catalog Number: **CL488-82585**

## Basic Information

<b>Catalog Number:</b> CL488-82585	<b>GenBank Accession Number:</b> BC035558	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 55226	<b>CloneNo.:</b> 5B9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9H0A0	<b>Recommended Dilutions:</b> IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG	<b>Full Name:</b> N-acetyltransferase 10 (GCN5-related)	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG4184	<b>Calculated MW:</b> 1025 aa, 116 kDa	
	<b>Observed MW:</b> 116 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, FC (Intra)	<b>Positive Controls:</b> IF/ICC : HeLa cells,
<b>Species Specificity:</b> human	

## Background Information

NAT10 (N-acetyltransferase 10) is a nucleolar protein that is involved in regulation of telomerase activity, DNA damage response, and cytokinesis. It also plays a role in maintaining nuclear shape. Inhibition of NAT10 has been reported to rescue the misshapen nuclei in laminopathic cells via microtubule reorganization. The specificity of this antibody has been tested by siRNA (PMID: 24786082). NAT10 regulates mitotic cell fate by acetylating Eg5. NAT10 depletion results in multinuclear giant cells, which is the hallmark of mitotic catastrophe (PMID: 35210604). NAT10 plays a crucial role in carcinogenesis through influencing EMT, hypoxia, ribosomal biogenesis and overall, promoting translational efficiency. Recently, we reported that treating cancer cells with Remodelin, a small molecule inhibitor of NAT10, causes alteration in global lipid metabolism (PMID: 36149760).

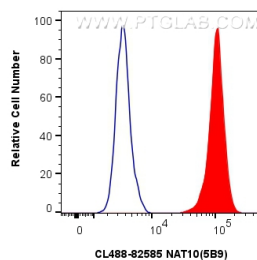
## Storage

**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**

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 NAT10 antibody (CL488-82585, Clone: 5B9) at dilution of 1:800.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488-conjugated NAT10 Recombinant antibody (CL488-82585, Clone:5B9) (red), or 0.4 ug CoraLite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).