

For Research Use Only

NAT10 Recombinant antibody, PBS Only



Catalog Number: 82585-1-PBS

Basic Information

Catalog Number: 82585-1-PBS	GenBank Accession Number: BC035558	Purification Method: Protein A purification
Size: 1mg/ml	GeneID (NCBI): 55226	CloneNo.: 5B9
Source: Rabbit	UNIPROT ID: Q9H0A0	
Isotype: IgG	Full Name: N-acetyltransferase 10 (GCN5-related)	
Immunogen Catalog Number: AG4184	Calculated MW: 1025 aa, 116 kDa	
	Observed MW: 116 kDa	

Applications

Tested Applications:
WB, IP, IF/ICC, Indirect ELISA

Species Specificity:
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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

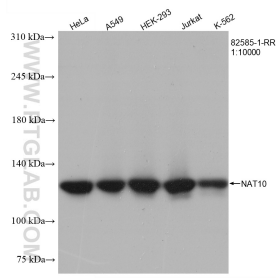
T: 4006900926

E: Proteintech-CN@ptglab.com

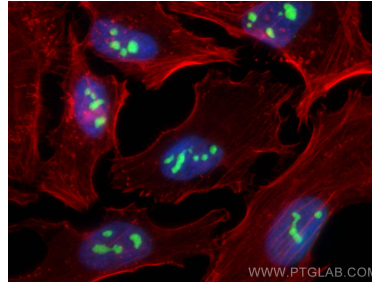
W: ptgcn.com

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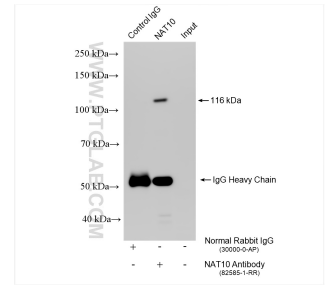
Selected Validation Data



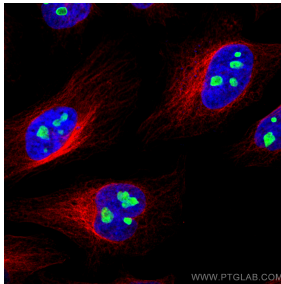
Various lysates were subjected to SDS PAGE followed by western blot with 82585-1-RR (NAT10 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82585-1-PBS in a different storage buffer formulation.



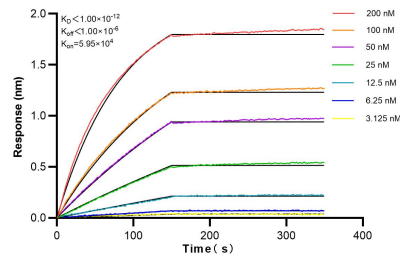
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using NAT10 antibody (82585-1-RR, Clone: 5B9) at dilution of 1:1900 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red). This data was developed using the same antibody clone with 82585-1-PBS in a different storage buffer formulation.



IP result of anti-NAT10 (IP:82585-1-RR, 4ug; Detection:82585-1-RR 1:5000) with mouse testis tissue lysate 1120 ug. This data was developed using the same antibody clone with 82585-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using NAT10 antibody (82585-1-RR, Clone: 5B9) at dilution of 1:1900 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red). This data was developed using the same antibody clone with 82585-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82585-1-RR against Human NAT10 were performed. The affinity constant is below 1 pM.