

AMN1 Polyclonal antibody

Catalog Number: 14694-1-AP

Basic Information

Catalog Number: 14694-1-AP	GenBank Accession Number: BC067906	Purification Method: Antigen affinity purification
Concentration: 200 ug/ml	GeneID (NCBI): 196394	Recommended Dilutions: WB 1:200-1:1000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q8IY45	
Isotype: IgG	Full Name: antagonist of mitotic exit network 1 homolog (S. cerevisiae)	
Immunogen Catalog Number: AG6257	Calculated MW: 28 kDa	
	Observed MW: 28 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : human colon tissue, IHC : human colon cancer tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

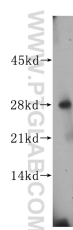
Background Information

AMN1, also known as the antagonist of mitotic exit network 1 homolog, is a protein-coding gene that plays a significant role in regulating cell division and mitotic exit in *Saccharomyces cerevisiae* (baker's yeast). AMN1 is an atypical F-box protein involved in the regulation of the MEN pathway. It acts as an antagonist by disrupting the formation of the Tem1/Cdc15 complex, which is crucial for mitotic exit. Specifically, AMN1 competes with Cdc15 for binding to Tem1, thereby turning off the MEN pathway. AMN1 is essential for cell separation after cytokinesis. It inhibits the transcription factor Ace2, leading to the downregulation of Ace2 target genes. This inhibition prevents septum cleavage and results in post-mitotic cell separation inhibition, causing cell clumping.

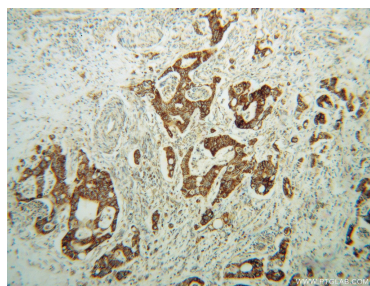
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



human colon tissue were subjected to SDS PAGE followed by western blot with 14694-1-AP (AMN1 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 14694-1-AP (AMN1 antibody) at dilution of 1:100 (under 10x lens).