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RNF26 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18283c

Product Information

Application	WB, E
Primary Accession	Q9BY78
Other Accession	NP_114404.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38353
Calculated MW	47737
Antigen Region	247-273

Additional Information

Gene ID	79102
Other Names	RING finger protein 26, RNF26
Target/Specificity	This RNF26 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 247-273 amino acids from the Central region of human RNF26.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RNF26 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RNF26 (HGNC:14646)
Function	E3 ubiquitin-protein ligase that plays a key role in endosome organization by retaining vesicles in the perinuclear cloud (PubMed:27368102). Acts as a platform for perinuclear positioning of the endosomal system by mediating ubiquitination of SQSTM1 through interaction with the ubiquitin conjugating

	enzyme UBE2J1 (PubMed:27368102, PubMed:33472082). Ubiquitinated SQSTM1 attracts specific vesicle-associated adapters, forming a molecular bridge that restrains cognate vesicles in the perinuclear region and organizes the endosomal pathway for efficient cargo transport (PubMed:27368102, PubMed:33472082). Also acts as a regulator of type I interferon production in response to viral infection by mediating the formation of 'Lys-11'-linked polyubiquitin chains on TMEM173/STING, leading to stabilize TMEM173/STING (PubMed:25254379, PubMed:32614325). Also required to limit type I interferon response by promoting autophagic degradation of IRF3 (PubMed:25254379).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Ubiquitous. Up-regulated in several cancer cell lines.

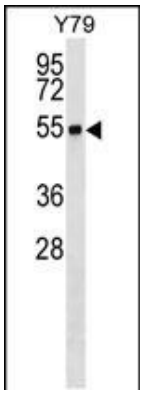
Background

The protein encoded by this intronless gene contains a C3HC5 type of RING finger, a motif known to be involved in protein-DNA and protein-protein interactions. The expression of this gene was found to be upregulated in cancer cell lines derived from different types of cancer.

References

Bailey, S.D., et al. Diabetes Care (2010) In press :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Katoh, M. Biochem. Biophys. Res. Commun. 282(4):1038-1044(2001)

Images



RNF26 Antibody (Center) (Cat. #AP18283c) western blot analysis in Y79 cell line lysates (35ug/lane).This demonstrates the RNF26 antibody detected the RNF26 protein (arrow).