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WDR43 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5488b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q15061
Other Accession	NP_055946.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26942
Calculated MW	74891
Antigen Region	636-665

Additional Information

Gene ID	23160
Other Names	WD repeat-containing protein 43, WDR43, KIAA0007, UTP5
Target/Specificity	This WDR43 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 636-665 amino acids from the C-terminal region of human WDR43.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	WDR43 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	WDR43 (HGNC:28945)
Synonyms	KIAA0007, UTP5
Function	Ribosome biogenesis factor that coordinates hyperactive transcription and

ribogenesis (PubMed:17699751). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome. Involved in nucleolar processing of pre-18S ribosomal RNA. Required for optimal pre-ribosomal RNA transcription by RNA polymerase I (PubMed:17699751, PubMed:34516797). Essential for stem cell pluripotency and embryonic development. In the nucleoplasm, recruited by promoter-associated/nascent transcripts and transcription to active promoters where it facilitates releases of elongation factor P-TEFb and paused RNA polymerase II to allow transcription elongation and maintain high-level expression of its targets genes (By similarity).

Cellular Location Nucleus, nucleolus. Nucleus, nucleolus fibrillar center. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:Q6ZQL4}

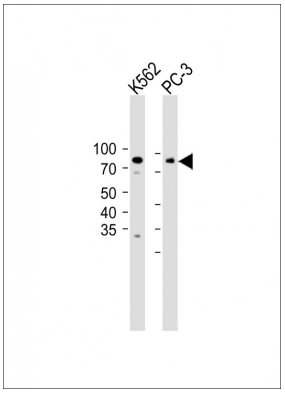
Background

The function of WDR43 remains unknown.

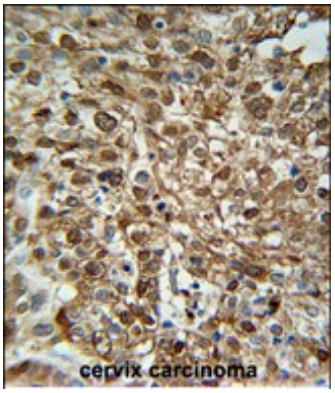
References

Olsen, J.V., et al. Cell 127(3):635-648(2006)
Beausoleil, S.A., et al. Nat. Biotechnol. 24(10):1285-1292(2006)
Nousiainen, M., et al. Proc. Natl. Acad. Sci. U.S.A. 103(14):5391-5396(2006)

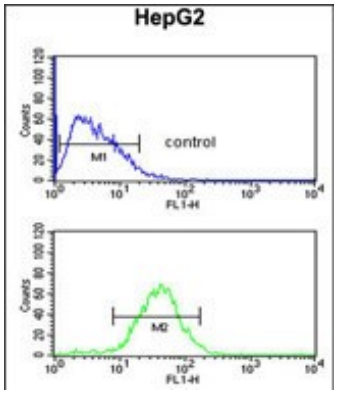
Images



All lanes: Anti-WDR43 Antibody (C-term) at 1:2000 dilution Lane 1: K562 whole cell lysate Lane 2: PC-3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 80 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



WDR43 Antibody (C-term) (Cat. #AP5488b) immunohistochemistry analysis in formalin fixed and paraffin embedded human Cervix carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the WDR43 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WDR43 Antibody (C-term) (Cat. #AP5488b) flow cytometric analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.