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KIAA1310 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10747c

Product Information

Application	IHC-P, WB, E
Primary Accession	Q9P2N6
Other Accession	Q3KR73, A2RSY1, NP_001108488.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24189
Calculated MW	95992
Antigen Region	398-427

Additional Information

Gene ID	55683
Other Names	KAT8 regulatory NSL complex subunit 3, NSL complex protein NSL3, Non-specific lethal 3 homolog, Serum inhibited-related protein, Testis development protein PRTD, KANSL3, KIAA1310, NSL3, PRTD, SI1
Target/Specificity	This KIAA1310 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 398-427 amino acids from the Central region of human KIAA1310.
Dilution	IHC-P~~1:100~500 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	KIAA1310 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

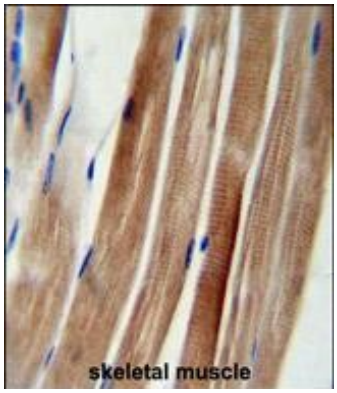
Name	KANSL3
Synonyms	KIAA1310, NSL3, PRTD, SI1

Function	Non-catalytic component of the NSL histone acetyltransferase complex, a multiprotein complex that mediates histone H4 acetylation at 'Lys-5'- and 'Lys-8' (H4K5ac and H4K8ac) at transcription start sites and promotes transcription initiation (PubMed:20018852, PubMed:33657400). The NSL complex also acts as a regulator of gene expression in mitochondria (PubMed:27768893). Within the NSL complex, KANSL3 is required to promote KAT8 association with mitochondrial DNA (PubMed:27768893). Required for transcription of intraciliary transport genes in both ciliated and non-ciliated cells (By similarity). This is necessary for cilium assembly in ciliated cells and for organization of the microtubule cytoskeleton in non-ciliated cells (By similarity). Also required within the NSL complex to maintain nuclear architecture stability by promoting KAT8-mediated acetylation of lamin LMNA (By similarity). Plays an essential role in spindle assembly during mitosis (PubMed:26243146). Acts as a microtubule minus-end binding protein which stabilizes microtubules and promotes their assembly (PubMed:26243146). Indispensable during early embryonic development where it is required for proper lineage specification and maintenance during peri-implantation development and is essential for implantation (By similarity).
Cellular Location	Nucleus. Mitochondrion. Cytoplasm, cytoskeleton, spindle pole. Note=Concentrated in the nucleus during interphase but displays a marked relocalization to the spindle poles during mitosis.

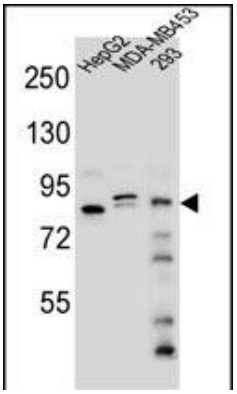
References

Beausoleil, S.A., et al. Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135(2004)
Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000)

Images



KIAA1310 Antibody (Center) (Cat. #AP10747c) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the KIAA1310 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



KIAA1310 Antibody (Center) (Cat. #AP10747c) western blot analysis in HepG2,MDA-MB453,293 cell line lysates (35ug/lane).This demonstrates the KIAA1310 antibody detected the KIAA1310 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.