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ARMC9 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13443a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q7Z3E5
Other Accession	NP_079415.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32514
Calculated MW	91819
Antigen Region	95-124

Additional Information

Gene ID	80210
Other Names	LisH domain-containing protein ARMC9, Melanoma/melanocyte-specific tumor antigen KU-MEL-1, NS21, ARMC9, KIAA1868
Target/Specificity	This ARMC9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 95-124 amino acids from the N-terminal region of human ARMC9.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	ARMC9 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ARMC9 (HGNC:20730)
Synonyms	KIAA1868
Function	Involved in ciliogenesis (PubMed: 32453716). It is required for appropriate

	acetylation and polyglutamylation of ciliary microtubules, and regulation of cilium length (PubMed:32453716). Acts as a positive regulator of hedgehog (Hh)signaling (By similarity). May participate in the trafficking and/or retention of GLI2 and GLI3 proteins at the ciliary tip (By similarity).
Cellular Location	Cytoplasm, cytoskeleton, cilium basal body. Cell projection, cilium {ECO:0000250|UniProtKB:Q9D2I5}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole Note=Localized to the proximal region in cilia. Stimulation of Hh signaling leads to redistribution of ARMC9 toward the ciliary tip within 6 hours, follow by a gradual return to its original proximal location (By similarity). Localizes to the daughter centriole of the primary cilium in RPE1 cells (PubMed:28625504) {ECO:0000250|UniProtKB:Q9D2I5, ECO:0000269|PubMed:28625504}
Tissue Location	Strongly expressed in most melanomas and melanocytes. Weakly expressed in the testis

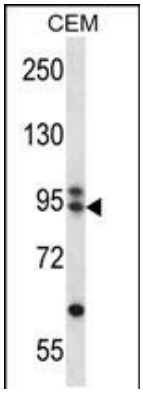
Background

The specific function of the protein remains unknown.

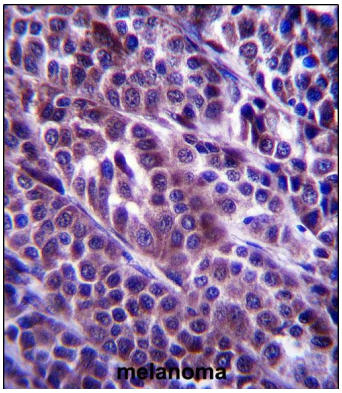
References

Bailey, S.D., et al. Diabetes Care (2010) In press :
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Hillier, L.W., et al. Nature 434(7034):724-731(2005)
Kiniwa, Y., et al. Cancer Res. 61(21):7900-7907(2001)

Images



ARMC9 Antibody (N-term) (Cat. #AP13443a) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the ARMC9 antibody detected the ARMC9 protein (arrow).



ARMC9 Antibody (N-term) (Cat. #AP13443a)immunohistochemistry analysis in formalin fixed and paraffin embedded human melanoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ARMC9 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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