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ARMC5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5400b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q96C12
Other Accession	NP_079018.1, NP_001098717.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26675
Calculated MW	97682
Antigen Region	599-628

Additional Information

Gene ID	79798
Other Names	Armadillo repeat-containing protein 5, ARMC5
Target/Specificity	This ARMC5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 599-628 amino acids from the C-terminal region of human ARMC5.
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 0.09% (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	ARMC5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ARMC5 {ECO:0000303|PubMed:24283224, ECO:0000312|HGNC:HGNC:25781}
Function	Substrate-recognition component of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that terminates RNA polymerase II (Pol II) transcription in the

promoter-proximal region of genes (PubMed:39504960, PubMed:39667934). The BCR(ARMC5) complex provides a quality checkpoint during transcription elongation by driving premature transcription termination of transcripts that are unfavorably configured for transcriptional elongation: the BCR(ARMC5) complex acts by mediating ubiquitination of Pol II subunit POLR2A phosphorylated at 'Ser-5' of the C-terminal domain (CTD), leading to POLR2A degradation (PubMed:35687106, PubMed:38225631, PubMed:39504960, PubMed:39667934). The BCR(ARMC5) complex acts in parallel of the integrator complex and is specific for RNA Pol II originating from the promoter-proximal zone: it does not ubiquitinate elongation-stalled RNA Pol II (PubMed:39667934). The BCR(ARMC5) complex also acts as a regulator of fatty acid desaturation by mediating ubiquitination and degradation of SCAP-free SREBF1 and SREBF2 (PubMed:35862218). Involved in fetal development, T-cell function and adrenal gland growth homeostasis (PubMed:24283224, PubMed:28676429). Plays a role in steroidogenesis, modulates steroidogenic enzymes expression and cortisol production (PubMed:24283224, PubMed:28676429).

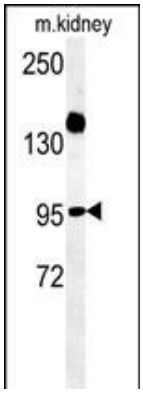
Cellular Location

Nucleus. Chromosome. Cytoplasm. Note=Associates to RNA polymerase II (Pol II) on chromatin.

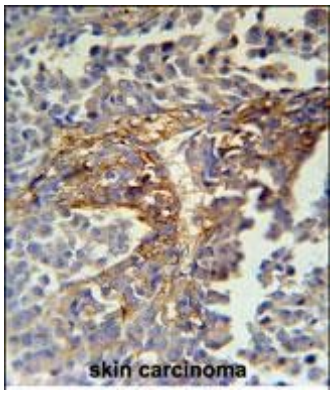
References

Hattori, A., et al. DNA Res. 7(6):357-366(2000)

Images

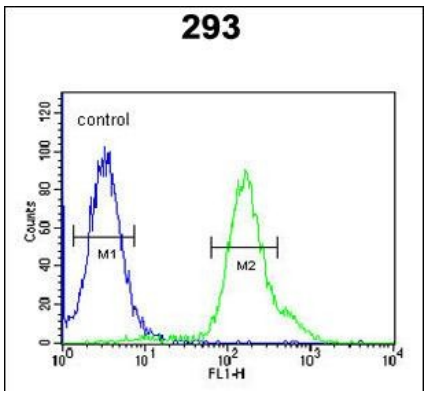


ARMC5 Antibody (C-term)(Cat. #AP5400b) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the ARMC5 antibody detected ARMC5 protein (arrow).



ARMC5 Antibody (C-term) (Cat. #AP5400b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skin carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ARMC5 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ARMC5 Antibody (C-term) (Cat. #AP5400b) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary



antibodies were used for the analysis.

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