

ARMC5 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5400b**Specification**

ARMC5 Antibody (C-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	O96C12
Other Accession	NP_079018.1 , NP_001098717.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	97682
Antigen Region	599-628

ARMC5 Antibody (C-term) - 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

FC~~1:10~50

IHC-P~~1:50~100

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

ARMC5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ARMC5 Antibody (C-term) - 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

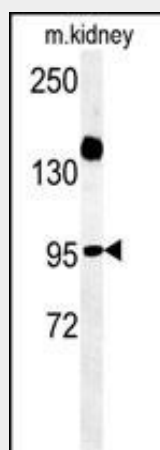
Nucleus. Chromosome. Cytoplasm. Note=Associates to RNA polymerase II (Pol II) on chromatin.

ARMC5 Antibody (C-term) - Protocols

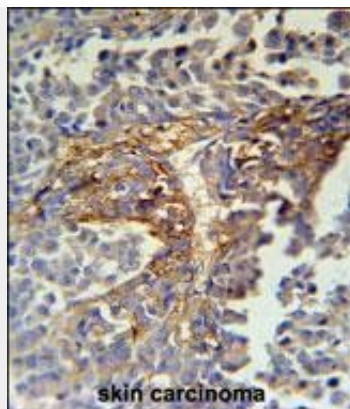
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

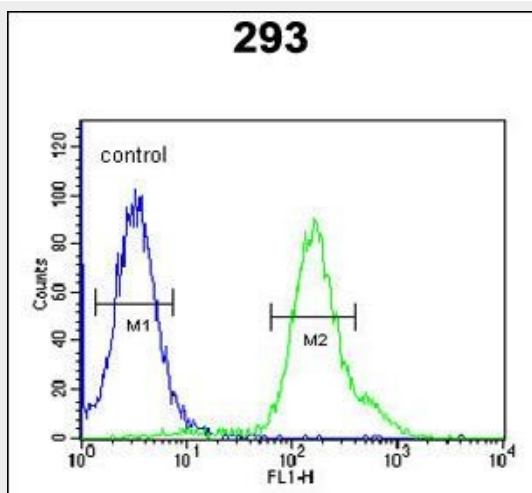
ARMC5 Antibody (C-term) - Images



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.

ARMC5 Antibody (C-term) - References

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