

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 <u>Q96C12</u>

Other Accession NP 079018.1, NP 001098717.1

Reactivity Human, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 97682

ARMC5 Antibody (C-term) - Additional Information

Gene ID 79798

Antigen Region

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.

599-628

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

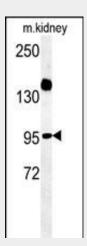
Nucleus. Chromosome. Cytoplasm. Note=Associates to RNA polymerase II (Pol II) on chromatin.

ARMC5 Antibody (C-term) - Protocols

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

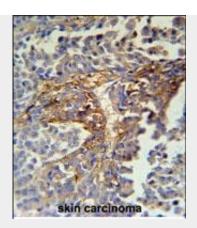
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ARMC5 Antibody (C-term) - Images

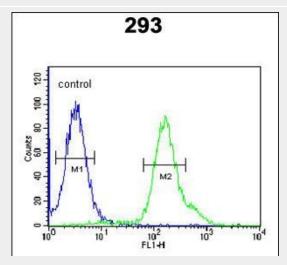


ARMC5 Antibody (C-term)(Cat. #AP5400b) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the ARMC5 antibody detected ARMC5 protein (arrow).





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)