10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ARMC5 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP5400b

Specification

ARMC5 Blocking Peptide (C-term) - Product Information

Primary Accession	Q96C12
Other Accession	NP_079018.1, NP_001098717.1

ARMC5 Blocking Peptide (C-term) - Additional Information

Gene ID 79798

Other Names
Armadillo repeat-containing protein 5, ARMC5

Target/Specificity
The synthetic peptide sequence is selected from aa 614-628 of HUMAN ARMC5

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ARMC5 Blocking Peptide (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 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides

ARMC5 Blocking Peptide (C-term) - Images

ARMC5 Blocking Peptide (C-term) - References

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