Arkadia (RNF111) Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	Arkadia (RNF111), Polyclonal Antibody
Full Product Name	Arkadia Polyclonal Antibody
Product Gene Name	anti-RNF111 antibody
Clonality	Polyclonal
Molecular Weight	108,906 Da
OMIM	605840
3D Structure	ModBase 3D Structure for Q6ZNA4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-RNF111 antibody	MBS8521310 is an antibody targeting RNF111. Also known as Arkadia Polyclonal Antibody.
Other Notes	Small volumes of anti-RNF111 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNF111. It may not necessarily be applicable to this product.

NCBI GI #	395455081
NCBI GeneID	54778
NCBI Accession #	NP_001257457.1
UniProt Primary Accession #	Q6ZNA4
UniProt Secondary Accession #	Q6P9A4; Q6ZMU2; Q7L428; Q7Z346; Q8N1P9; Q8WUA3; Q9NSR1; C9JUS4; H0YN55
UniProt Related Accession #	Q6ZNA4
GenBank Nucleotide #	NM_001270528.1
NCBI Official Full Name	E3 ubiquitin-protein ligase Arkadia isoform 1
NCBI Official Synonym Full Names	ring finger protein 111
NCBI Official Symbol	RNF111
NCBI Official Synonym Symbols	ARK; hRNF111
UniProt Protein Name	E3 ubiquitin-protein ligase Arkadia
UniProt Synonym Protein Names	RING finger protein 111
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	RNF111
UniProt Synonym Gene Names	hRNF111
NCBI Protein Information	E3 ubiquitin-protein ligase Arkadia

NCBI Summary for RNF111	The protein encoded by this gene is a nuclear RING-domain containing E3 ubiquitin ligase. This protein interacts with the transforming growth factor (TGF) -beta/NODAL signaling pathway by promoting the ubiquitination and proteosomal degradation of negative regulators, like SMAD proteins, and thereby enhances TGF-beta target-gene transcription. As a modulator of the nodal signaling cascade, this gene plays a critical role in the induction of mesoderm during embryonic development. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2012]
UniProt Comments for RNF111	E3 ubiquitin-protein ligase (PubMed:26656854). Required for mesoderm patterning during embryonic development (). Acts as an enhancer of the transcriptional responses of the SMAD2/SMAD3 effectors, which are activated downstream of BMP (PubMed:14657019, PubMed:16601693). Acts by mediating ubiquitination and degradation of SMAD inhibitors such as SMAD7, inducing their proteasomal degradation and thereby enhancing the transcriptional activity of TGF-beta and BMP (PubMed:14657019, PubMed:16601693). In addition to enhance transcription of SMAD2/SMAD3 effectors, also regulates their turnover by mediating their ubiquitination and subsequent degradation, coupling their activation with degradation, thereby ensuring that only effectors 'in use' are degraded (). Activates SMAD3/SMAD4-dependent transcription by triggering signal-induced degradation of SNON isoform of SKIL (PubMed:17591695). Associates with UBE2D2 as an E2 enzyme (PubMed:22411132). Specifically binds polysumoylated chains via SUMO interaction motifs (SIMs) and mediates ubiquitination of sumoylated substrates (PubMed:23751493). Catalyzes 'Lys-63'-linked ubiquitination of sumoylated XPC in response to UV irradiation, promoting nucleotide excision repair (PubMed:23751493). Mediates ubiquitination and degradation of sumoylated PML (). The regulation of the BMP-SMAD signaling is however independent of sumoylation and is not dependent of SUMO interaction motifs (SIMs) ().
Research Articles on RNF111	**1.** Results indicate a tumor-suppressive role of the ring finger protein 111 (Arkadia)-epithelial splicing regulatory protein 2 (ESRP2) axis in clear-cell renal cell carcinoma (ccRCC).
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