RNF111 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RNF111, Polyclonal Antibody
Full Product Name	RNF111 Antibody
Product Gene Name	anti-RNF111 antibody
Product Synonym Names	RNF111; E3 Ubiquitin-protein ligase Arkadia; RING finger protein 111
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	108,862 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (59279865..59389618). Location: 15q21
OMIM	605840
3D Structure	ModBase 3D Structure for Q6ZNA4
Immunogen	Synthesized peptide derived from the C-terminal region of human Arkadia.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-RNF111 antibody	Cell Biology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RNF111 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-RNF111 antibody	WB: 1:500-1:2000 ELISA: 1:40000
Related Product Information for anti-RNF111 antibody	MBS7120189 is an antibody targeting RNF111. Also known as RNF111 Antibody. Reactive in Human, Mouse. Host: Rabbit.
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
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 Entry Name	RN111_HUMAN
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	RNF111: Acts in the NODAL pathway of mesoderm patterning during embryonic development. Acts downstream AXIN1 as an E3 ubiquitin- protein ligase which promotes the ubiquitination of inhibitory SMADs such as SMAD7, induces their proteasomal degradation and thereby enhances the transcriptional activity of TGF-beta and BMP. Activates Smad3/Smad4-dependent transcription by triggering signal-induced SnoN degradation. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin ligase; Ubiquitin conjugating system; EC 6.3.2.-; Ligase Chromosomal Location of Human Ortholog: 15q21 Cellular Component: nucleoplasm; protein complex; cytoplasm; nucleolus; nucleus Molecular Function: protein binding; zinc ion binding; SUMO polymer binding; SMAD binding; ligase activity Biological Process: transcription initiation from RNA polymerase II promoter; protein polyubiquitination; transcription, DNA-dependent; positive regulation of protein ubiquitination; positive regulation of transcription, DNA-dependent; transforming growth factor beta receptor signaling pathway; positive regulation of transforming growth factor beta receptor signaling pathway; protein ubiquitination; positive regulation of transcription from RNA polymerase II promoter; gene expression; ubiquitin-dependent SMAD protein catabolic process; pattern specification process
Research Articles on RNF111	**1.** RNF111-dependent neddylation activates DNA damage-induced ubiquitination
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