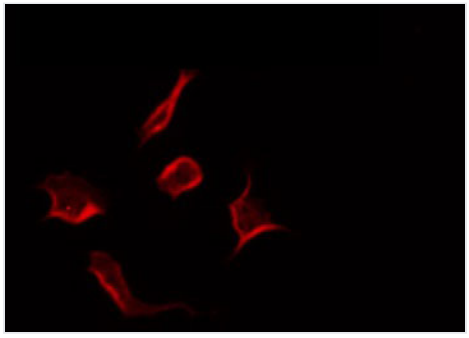
RNF144A Antibody – Rabbit Polyclonal

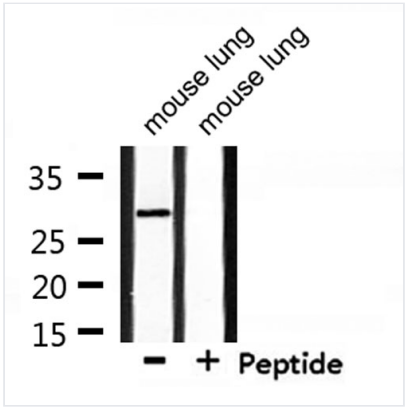
PRODUCT OVERVIEW

Product Name	RNF144A, Polyclonal Antibody
Full Product Name	RNF144A Antibody
Product Gene Name	anti-RNF144A antibody
Product Synonym Names	KIAA0161; Probable E3 ubiquitin protein ligase RNF144A; Probable E3 ubiquitin-protein ligase RNF144A; R144A_HUMAN; Ring finger protein 144; RING finger protein 144A; RNF 144; RNF 144A; rnf144a; UBCE7IP4; UbcM4 interacting protein 4; UbcM4-interacting protein 4; Ubiquitin conjugating enzyme 7 interacting protein 4; Ubiquitin-conjugating enzyme 7-interacting protein 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	RNF144A antibody detects endogenous levels of RNF144A
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	RNF144A peptide (MBS9615043) is used for blocking the activity of RNF144A antibody (MBS9600490)
Molecular Weight	Observed: 30 kDa Predicted: 33 kDa
3D Structure	ModBase 3D Structure for P50876
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human RNF144A
Subcellular Location	Membrane.
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep, Dog, Chicken**
Similarity	Pig (91%), Bovine (82%), Horse (82%), Sheep (82%), Dog (91%), Chicken (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RNF144A antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-RNF144A antibody	WB: 1:500-1:2000 IF/ICC: 1:100-1:500

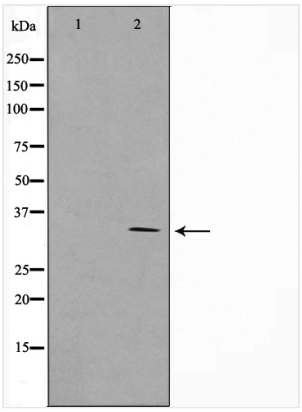
Related Product Information for anti-RNF144A antibody	Description: RNF144A E3 ubiquitin-protein ligase which accepts ubiquitin from E2 ubiquitin-conjugating enzymes UBE2L3 and UBE2L6 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Belongs to the RBR family. RNF144 subfamily. Interacts with UBE2L3. Function: E3 ubiquitin-protein ligase which accepts ubiquitin from E2 ubiquitin-conjugating enzymes UBE2L3 and UBE2L6 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Mediates the ubiquitination and degradation of the DNA damage kinase PRKDC. Subunit Structure: Interacts with UBE2L3. Post-translational Modifications: Autoubiquitinated. Similarity: Members of the RBR family are atypical E3 ligases. They interact with the E2 conjugating enzyme UBE2L3 and function like HECT-type E3 enzymes: they bind E2s via the first RING domain, but require an obligate trans-thiolation step during the ubiquitin transfer, requiring a conserved cysteine residue in the second RING domain. Belongs to the RBR family. RNF144 subfamily.
Other Notes	Small volumes of anti-RNF144A 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.
Searchable Terms for RNF144A purchase	MBS9600490 is an antibody targeting RNF144A. Also known as RNF144A Antibody. Reactive in Human, Mouse. Host: Rabbit.



Immunofluorescence (IF) of anti-RNF144A antibody
MBS9600490 staining COLO205 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



Western Blot (WB) of anti-RNF144A antibody
Western blot analysis of extracts from mouse lung, using RNF144A Antibody.



Western Blot (WB) of anti-RNF144A antibody
Western blot analysis on COLO205 cell lysate using RNF144A Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNF144A. It may not necessarily be applicable to this product.

NCBI GI #	38045938
NCBI GeneID	9781
NCBI Accession #	NP_055561.2

UniProt Primary Accession #	P50876
UniProt Secondary Accession #	Q585H5; D6W4Y6
UniProt Related Accession #	P50876
GenBank Nucleotide #	NM_014746.5
NCBI Official Full Name	E3 ubiquitin-protein ligase RNF144A isoform 2
NCBI Official Synonym Full Names	ring finger protein 144A
NCBI Official Symbol	RNF144A
NCBI Official Synonym Symbols	hUIP4; RNF144; UBCE7IP4
UniProt Protein Name	E3 ubiquitin-protein ligase RNF144A
UniProt Synonym Protein Names	RING finger protein 144A; UbcM4-interacting protein 4; Ubiquitin-conjugating enzyme 7-interacting protein 4
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	RNF144A
UniProt Synonym Gene Names	KIAA0161; RNF144; UBCE7IP4
NCBI Protein Information	E3 ubiquitin-protein ligase RNF144A
NCBI Summary for RNF144A	This gene encodes a member of a family of RING finger domain-containing E3 ubiquitin ligases that also includes parkin and parc. The expression of this gene is induced by DNA damage. The encoded protein interacts with the cytoplasmic DNA-dependent protein kinase, catalytic subunit (DNA-PKcs) and promotes its degradation through ubiquitination. The orthologous mouse protein has been shown to interact with a ubiquitin-conjugating enzyme involved in embryonic development. [provided by RefSeq, Mar 2017]
UniProt Comments for RNF144A	E3 ubiquitin-protein ligase which accepts ubiquitin from E2 ubiquitin-conjugating enzymes UBE2L3 and UBE2L6 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Mediates the ubiquitination and degradation of the DNA damage kinase PRKDC.
Research Articles on RNF144A	**1.** both proper membrane localization and self-association are important for RNF144A function.
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