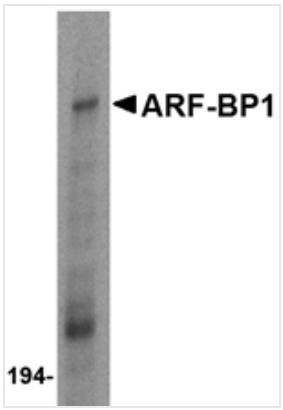
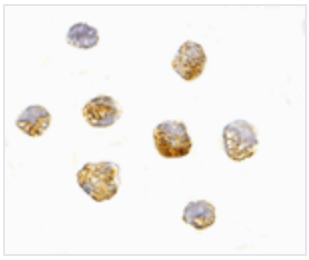
ARF-BP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARF-BP1, Polyclonal Antibody
Full Product Name	ARF-BP1 Antibody
Product Gene Name	anti-ARF-BP1 antibody
Product Synonym Names	ARF binding protein 1; HECT, UBA and WWE domain containing 1; HUWE1; Mcl-1 ubiquitin ligase E3; Mule
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Purity/Purification	Affinity chromatography purified via peptide column
Preparation and Storage	Can be stored at -20 degree C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Molecular Weight	481,018 Da
OMIM	300697
Immunogen Type	Peptide
Immunogen Description	Raised against a 19 amino acid peptide from near the carboxy terminus of human ARF-BP1.
Target Name	ARF-BP1
Product Categories/Family for anti-ARF-BP1 antibody	Total protein Ab
Applications Tested/Suitable for anti-ARF-BP1 antibody	ELISA (EIA), Western Blot (WB), Immunocytochemistry (ICC)
Related Product Information for anti-ARF-BP1 antibody	The ARF tumor suppressor is a critical regulator of p53 stability. In addition to p53, ARF1 binds to other proteins such as MDM2 and ARF-BP1, a large protein containing HECT, UBA and WWE motifs. ARF-BP1 directly binds and ubiquitinates p53; this activity is inhibited by ARF, indicating that ARF-BP1 is a critical mediator of the p53-dependent and p53-independent tumor suppressor functions of ARF. ARF-BP1 can also catalyze the polyubiquitination of Mcl-1, an anti-apoptotic Bcl-2 family member involved in DNA damage-induced apoptosis. Elimination of ARF-BP1 expression by RNA interference stabilized Mcl-1 protein, resulting in an attenuation of apoptosis induced by DNA-damage agents.
Other Notes	Small volumes of anti-ARF-BP1 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 ARF-BP1 purchase	MBS9404871 is an antibody targeting ARF-BP1. Also known as ARF-BP1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-ARF-BP1 antibody
Western blot analysis of ARF-BP1 in Daudi cell lysate with ARF-BP1 antibody at 1 ug/mL.



Immunocytochemistry (ICC) of anti-ARF-BP1 antibody
Immunocytochemistry of ARF-BP1 in Daudi cells with ARF-BP1 antibody at 5 ug/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARF-BP1. It may not necessarily be applicable to this product.

NCBI GI #	61676188
NCBI GeneID	10075
NCBI Accession #	NP_113584
UniProt Secondary Accession #	O15029; Q4G2Z2; Q5H961; Q6P4D0; Q8NG67; Q9BUI0; Q9HCJ4; Q9NSL6; Q9P0A9
UniProt Related Accession #	Q7Z6Z7
GenBank Nucleotide #	NM_031407.6
NCBI Official Full Name	E3 ubiquitin-protein ligase HUWE1
NCBI Official Synonym Full Names	HECT, UBA and WWE domain containing 1, E3 ubiquitin protein ligase
NCBI Official Symbol	HUWE1
NCBI Official Synonym Symbols	MULE; Ib772; LASU1; UREB1; HECTH9; URE-B1; ARF-BP1; HSPC272
UniProt Protein Name	E3 ubiquitin-protein ligase HUWE1
UniProt Synonym Protein Names	ARF-binding protein 1; ARF-BP1; HECT, UBA and WWE domain-containing protein 1; Homologous to E6AP carboxyl terminus homologous protein 9; HectH9; Large structure of UREB1; LASU1; Mcl-1 ubiquitin ligase E3; Mule; Upstream regulatory element-binding protein 1; URE-B1; URE-binding protein 1
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	HUWE1
UniProt Synonym Gene Names	KIAA0312; KIAA1578; UREB1; ARF-BP1; HectH9; LASU1; Mule; URE-B1; URE-binding protein 1
UniProt Entry Name	HUWE1_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase HUWE1
NCBI Summary for ARF-BP1	This gene encodes a protein containing a C-terminal HECT (E6AP type E3 ubiquitin protein ligase) domain that functions as an E3 ubiquitin ligase. The encoded protein is required for the ubiquitination and subsequent degradation of the anti-apoptotic protein Mcl1 (myeloid cell leukemia sequence 1 (BCL2-related)). This protein also ubiquitinates the p53 tumor suppressor, core histones, and DNA polymerase beta. Mutations in this gene are associated with Turner type X-linked syndromic mental retardation. [provided by RefSeq, Aug 2013]

UniProt Comments for ARF-BP1	HUWE1: E3 ubiquitin-protein ligase which mediates ubiquitination and subsequent proteasomal degradation of target proteins. Regulates apoptosis by catalyzing the polyubiquitination and degradation of MCL1. Mediates monoubiquitination of DNA polymerase beta (POLB) at 'Lys-41', 'Lys-61' and 'Lys-81', thereby playing a role in base-excision repair. Also ubiquitinates the p53/TP53 tumor suppressor and core histones including H1, H2A, H2B, H3 and H4. Binds to an upstream initiator-like sequence in the preprodynorphin gene. Regulates neural differentiation and proliferation by catalyzing the polyubiquitination and degradation of MYCN. May regulate abundance of CDC6 after DNA damage by polyubiquitinating and targeting CDC6 to degradation. Interacts with isoform p14ARF of CDKN2A which strongly inhibits HUWE1 ubiquitin ligase activity. Interacts with MYCN, POLB and CDC6. Weakly expressed in heart, brain and placenta but not in other tissues. Expressed in a number of cell lines, predominantly in those from colorectal carcinomas. Belongs to the TOM1/PTR1 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin ligase; Ubiquitin conjugating system; EC 6.3.2.-; EC 6.3.2.19; Ligase Chromosomal Location of Human Ortholog: Xp11.22 Cellular Component: nucleoplasm; membrane; cytoplasm; nucleus Molecular Function: protein binding; DNA binding; ubiquitin-protein ligase activity; ligase activity Biological Process: protein monoubiquitination; protein polyubiquitination; base-excision repair; histone ubiquitination; protein ubiquitination during ubiquitin-dependent protein catabolic process; cell differentiation Disease: Mental Retardation, X-linked, Syndromic, Turner Type
Research Articles on ARF-BP1	**1.** Inhibition of HUWE1 stabilizes MIZ1 and induces global accumulation of MIZ1 on MYC-bound target genes.
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