

HUWE1 / ARFBP1 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11687**Specification****HUWE1 / ARFBP1 Antibody (C-Terminus) - Product Information**

Application	WB, IHC-P
Primary Accession	Q7Z6Z7
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	482kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A

HUWE1 / ARFBP1 Antibody (C-Terminus) - Additional Information**Gene ID** 10075**Other Names**

E3 ubiquitin-protein ligase HUWE1, 6.3.2.-, 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, HUWE1, KIAA0312, KIAA1578, UREB1

Target/Specificity

a 19 amino acid peptide from near the carboxy terminus of human ARF-BP1

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

HUWE1 / ARFBP1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

HUWE1 / ARFBP1 Antibody (C-Terminus) - Protein Information**Name** HUWE1**Synonyms** KIAA0312, KIAA1578, UREB1**Function**

E3 ubiquitin-protein ligase which mediates ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:15567145, PubMed:15767685, PubMed:15989957, PubMed:17567951, PubMed:18488021)

target="_blank">18488021, PubMed:19037095, PubMed:19713937, PubMed:20534529, PubMed:30217973). Regulates apoptosis by catalyzing the polyubiquitination and degradation of MCL1 (PubMed:15989957). Mediates monoubiquitination of DNA polymerase beta (POLB) at 'Lys-41', 'Lys-61' and 'Lys-81', thereby playing a role in base-excision repair (PubMed:19713937). Also ubiquitinates the p53/TP53 tumor suppressor and core histones including H1, H2A, H2B, H3 and H4 (PubMed:15567145, PubMed:15767685, PubMed:15989956). Ubiquitinates MFN2 to negatively regulate mitochondrial fusion in response to decreased stearylolation of TFRC (PubMed:26214738). Ubiquitination of MFN2 also takes place following induction of mitophagy; AMBRA1 acts as a cofactor for HUWE1-mediated ubiquitination (PubMed:30217973). Regulates neural differentiation and proliferation by catalyzing the polyubiquitination and degradation of MYCN (PubMed:18488021). May regulate abundance of CDC6 after DNA damage by polyubiquitinating and targeting CDC6 to degradation (PubMed:17567951). Mediates polyubiquitination of isoform 2 of PA2G4 (PubMed:19037095). Acts in concert with MYCBP2 to regulate the circadian clock gene expression by promoting the lithium-induced ubiquitination and degradation of NR1D1 (PubMed:20534529). Binds to an upstream initiator-like sequence in the preprodynorphin gene (By similarity). Mediates HAPSTR1 degradation, but is also a required cofactor in the pathway by which HAPSTR1 governs stress signaling (PubMed:35776542). Acts as a regulator of the JNK and NF-kappa-B signaling pathways by mediating assembly of heterotypic 'Lys-63'-'Lys-48'-linked branched ubiquitin chains that are then recognized by TAB2: HUWE1 mediates branching of 'Lys-48'-linked chains of substrates initially modified with 'Lys-63'-linked conjugates by TRAF6 (PubMed:27746020). 'Lys-63'-'Lys-48'-linked branched ubiquitin chains protect 'Lys-63'-linkages from CYLD deubiquitination (PubMed:27746020). Ubiquitinates PPARA in hepatocytes (By similarity).

Cellular Location

Cytoplasm. Nucleus. Mitochondrion. Note=Mainly expressed in the cytoplasm of most tissues, except in the nucleus of spermatogonia, primary spermatocytes and neuronal cells (By similarity). Recruited to mitochondria following interaction with AMBRA1 (PubMed:30217973)
{ECO:0000250|UniProtKB:Q7TMY8, ECO:0000269|PubMed:30217973}

Tissue Location

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

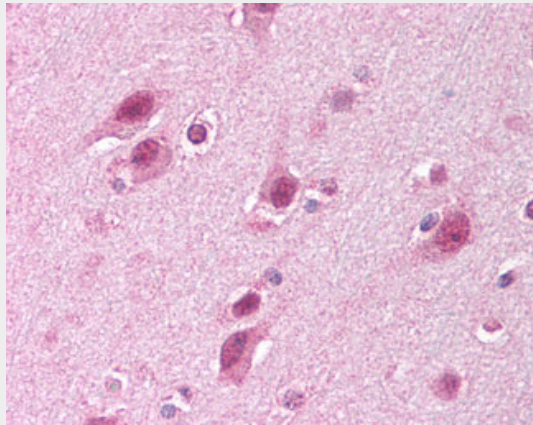
HUWE1 / ARFBP1 Antibody (C-Terminus) - Protocols

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

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HUWE1 / ARFBP1 Antibody (C-Terminus) - Images



Anti-HUWE1 antibody IHC of human brain, cortex.

HUWE1 / ARFBP1 Antibody (C-Terminus) - Background

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. Mediates polyubiquitination of isoform 2 of PA2G4.

HUWE1 / ARFBP1 Antibody (C-Terminus) - References

Chen D.,et al.Cell 121:1071-1083(2005).
Zhong Q.,et al.Cell 121:1085-1095(2005).
Liu Z.,et al.Mol. Cell. Biol. 25:2819-2831(2005).
Ross M.T.,et al.Nature 434:325-337(2005).
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