

**HUWE1 / LASU1 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3010a**Specification****HUWE1 / LASU1 Antibody (internal region) - Product Information**

Application	E
Primary Accession	<a href="#">O7Z6Z7</a>
Other Accession	<a href="#">NP_113584.3</a> , <a href="#">10075</a> , <a href="#">59026 (mouse)</a>
Predicted	Human, Mouse
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	481891

**HUWE1 / LASU1 Antibody (internal region) - 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

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HUWE1 / LASU1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**HUWE1 / LASU1 Antibody (internal region) - Protein Information**

**Name** HUWE1

**Synonyms** KIAA0312, KIAA1578, UREB1

**Function**

E3 ubiquitin-protein ligase which mediates ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:<a href="http://www.uniprot.org/citations/15567145" target="\_blank">15567145</a>, PubMed:<a href="http://www.uniprot.org/citations/15767685"

target="\_blank">15767685</a>, PubMed:<a href="http://www.uniprot.org/citations/15989957" target="\_blank">15989957</a>, PubMed:<a href="http://www.uniprot.org/citations/17567951" target="\_blank">17567951</a>, PubMed:<a href="http://www.uniprot.org/citations/18488021" target="\_blank">18488021</a>, PubMed:<a href="http://www.uniprot.org/citations/19037095" target="\_blank">19037095</a>, PubMed:<a href="http://www.uniprot.org/citations/19713937" target="\_blank">19713937</a>, PubMed:<a href="http://www.uniprot.org/citations/20534529" target="\_blank">20534529</a>, PubMed:<a href="http://www.uniprot.org/citations/30217973" target="\_blank">30217973</a>). Regulates apoptosis by catalyzing the polyubiquitination and degradation of MCL1 (PubMed:<a href="http://www.uniprot.org/citations/15989957" target="\_blank">15989957</a>). Mediates monoubiquitination of DNA polymerase beta (POLB) at 'Lys-41', 'Lys-61' and 'Lys-81', thereby playing a role in base-excision repair (PubMed:<a href="http://www.uniprot.org/citations/19713937" target="\_blank">19713937</a>). Also ubiquitinates the p53/TP53 tumor suppressor and core histones including H1, H2A, H2B, H3 and H4 (PubMed:<a href="http://www.uniprot.org/citations/15567145" target="\_blank">15567145</a>, PubMed:<a href="http://www.uniprot.org/citations/15767685" target="\_blank">15767685</a>, PubMed:<a href="http://www.uniprot.org/citations/15989956" target="\_blank">15989956</a>). Ubiquitinates MFN2 to negatively regulate mitochondrial fusion in response to decreased stearylation of TFRC (PubMed:<a href="http://www.uniprot.org/citations/26214738" target="\_blank">26214738</a>). Ubiquitination of MFN2 also takes place following induction of mitophagy; AMBRA1 acts as a cofactor for HUWE1-mediated ubiquitination (PubMed:<a href="http://www.uniprot.org/citations/30217973" target="\_blank">30217973</a>). Regulates neural differentiation and proliferation by catalyzing the polyubiquitination and degradation of MYCN (PubMed:<a href="http://www.uniprot.org/citations/18488021" target="\_blank">18488021</a>). May regulate abundance of CDC6 after DNA damage by polyubiquitinating and targeting CDC6 to degradation (PubMed:<a href="http://www.uniprot.org/citations/17567951" target="\_blank">17567951</a>). Mediates polyubiquitination of isoform 2 of PA2G4 (PubMed:<a href="http://www.uniprot.org/citations/19037095" target="\_blank">19037095</a>). Acts in concert with MYCBP2 to regulate the circadian clock gene expression by promoting the lithium-induced ubiquitination and degradation of NR1D1 (PubMed:<a href="http://www.uniprot.org/citations/20534529" target="\_blank">20534529</a>). 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:<a href="http://www.uniprot.org/citations/35776542" target="\_blank">35776542</a>). 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:<a href="http://www.uniprot.org/citations/27746020" target="\_blank">27746020</a>). 'Lys-63'-/'Lys-48'-linked branched ubiquitin chains protect 'Lys-63'-linkages from CYLD deubiquitination (PubMed:<a href="http://www.uniprot.org/citations/27746020" target="\_blank">27746020</a>). 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 / LASU1 Antibody (internal region) - 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 / LASU1 Antibody (internal region) - Images**

**HUWE1 / LASU1 Antibody (internal region) - References**

Regulation of heat-induced apoptosis by Mcl-1 degradation and its inhibition by Hsp70. Stankiewicz AR, Livingstone AM, Mohseni N, Mosser DD. Cell death and differentiation 2009 Apr 16 (4): 638-47. PMID: 19148187