

HUWE1 Rabbit pAb

CatalogNo: YN1842

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- IHC, IF

MW

- 481kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

IHC 1:50-300

IF 1:50-200

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

Synthesized peptide derived from part region of human protein

Specificity

HUWE1 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name

HUWE1 KIAA0312 KIAA1578 URB1 HSPC272

Protein Name E3 ubiquitin-protein ligase HUWE1 (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)

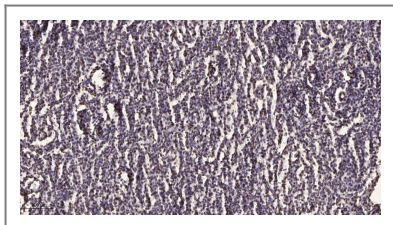
Organism	Gene ID	UniProt ID
Human	10075 ;	Q7Z6Z7 ;
Mouse		Q7TMY8 ;
Rat		P51593 ;

Cellular Localization Cytoplasm . Nucleus . Mitochondrion . 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). .

Tissue specificity 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.

Function Disease:A chromosomal microduplication involving HUWE1 and HSD17B10 is the cause of mental retardation X-linked type 17 (MRX17) [MIM:300705]; also known as mental retardation X-linked type 31 (MRX31). Mental retardation is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. In contrast to syndromic or specific X-linked mental retardation which also present with associated physical, neurological and/or psychiatric manifestations, intellectual deficiency is the only primary symptom of non-syndromic X-linked mental retardation.,Disease:Defects in HUWE1 are the cause of mental retardation syndromic X-linked Turner type (MRXST) [MIM:300706]; also known as mental retardation and macrocephaly syndrome. MRXST shows clinical variability. Associated phenotypes include macrocephaly and variable contractures.,Domain:The HECT domain mediates inhibition of the transcriptional activity of p53.,Function:E3 ubiquitin-protein ligase which mediates ubiquitination and subsequent proteasomal degradation of target proteins. Regulates apoptosis by catalyzing the polyubiquitination and degradation of MCL1. Also ubiquitinates the p53 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.,pathway:Protein modification; protein ubiquitination.,PTM:Phosphorylated on tyrosine; phosphorylation is probably required for its ability to inhibit TP53 transactivation.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,sequence Caution:Chimeric cDNA, contains the C-terminal part of ATP5I.,similarity:Belongs to the TOM1/PTR1 family.,similarity:Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain.,similarity:Contains 1 UBA domain.,similarity:Contains 1 UIM (ubiquitin-interacting motif) repeat.,similarity:Contains 1 WWE domain.,subcellular location:Mainly expressed in the cytoplasm of most tissues, except in the nucleus of spermatogonia, primary spermatocytes and neuronal cells (By similarity). Predominantly cytosolic or perinuclear in some colorectal carcinoma cells.,subunit:Interacts with isoform p14ARF of CDKN2A which strongly inhibits HUWE1 ubiquitin ligase activity. Interacts with MYCN and CDC6.,tissue specificity: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.,

| Validation Data



Immunohistochemical analysis of paraffin-embedded human brain tumor. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

| Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 877-594-3616 (Toll Free), 408-747-0185
Website: <http://www.immunoway.com>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code
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product information:
HUWE1 Rabbit pAb

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