

**UBR2 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP59159****Specification**

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**UBR2 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">Q8I WV8</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	200538

**UBR2 Polyclonal Antibody - Additional Information****Gene ID** 23304**Other Names**

E3 ubiquitin-protein ligase UBR2, 2.3.2.27, N-recognin-2, RING-type E3 ubiquitin transferase UBR2, Ubiquitin-protein ligase E3-alpha-2, Ubiquitin-protein ligase E3-alpha-II, UBR2, C6orf133, KIAA0349

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_E">E~~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**UBR2 Polyclonal Antibody - Protein Information****Name** UBR2**Synonyms** C6orf133, KIAA0349**Function**

E3 ubiquitin-protein ligase which is a component of the N-end rule pathway (PubMed:<a href="http://www.uniprot.org/citations/15548684" target="\_blank">15548684</a>, PubMed:<a href="http://www.uniprot.org/citations/20835242" target="\_blank">20835242</a>, PubMed:<a href="http://www.uniprot.org/citations/28392261" target="\_blank">28392261</a>). Recognizes and binds to proteins bearing specific N-terminal residues (N-degrons) that are destabilizing according to the N-end rule, leading to their ubiquitination and subsequent degradation (PubMed:<a href="http://www.uniprot.org/citations/20835242" target="\_blank">20835242</a>),

PubMed:<a href="http://www.uniprot.org/citations/28392261" target="\_blank">28392261</a>). Recognizes both type-1 and type-2 N-degrons, containing positively charged amino acids (Arg, Lys and His) and bulky and hydrophobic amino acids, respectively (PubMed:<a href="http://www.uniprot.org/citations/20835242" target="\_blank">20835242</a>, PubMed:<a href="http://www.uniprot.org/citations/28392261" target="\_blank">28392261</a>). Does not ubiquitinate proteins that are acetylated at the N-terminus (PubMed:<a href="http://www.uniprot.org/citations/20835242" target="\_blank">20835242</a>). In contrast, it strongly binds methylated N-degrons (PubMed:<a href="http://www.uniprot.org/citations/28392261" target="\_blank">28392261</a>). Plays a critical role in chromatin inactivation and chromosome-wide transcriptional silencing during meiosis via ubiquitination of histone H2A (By similarity). Binds leucine and is a negative regulator of the leucine-mTOR signaling pathway, thereby controlling cell growth (PubMed:<a href="http://www.uniprot.org/citations/20298436" target="\_blank">20298436</a>). Required for spermatogenesis, promotes, with Tex19.1, SPO11-dependent recombination foci to accumulate and drive robust homologous chromosome synapsis (By similarity). Polyubiquitinates LINE-1 retrotransposon encoded, LIRE1, which induces degradation, inhibiting LINE-1 retrotransposon mobilization (By similarity). Catalyzes ubiquitination and degradation of the N-terminal part of NLRP1 following NLRP1 activation by pathogens and other damage-associated signals: ubiquitination promotes degradation of the N-terminal part and subsequent release of the cleaved C-terminal part of NLRP1, which polymerizes and forms the NLRP1 inflammasome followed by host cell pyroptosis (By similarity). Plays a role in T-cell receptor signaling by inducing 'Lys-63'-linked ubiquitination of lymphocyte cell-specific kinase LCK (PubMed:<a href="http://www.uniprot.org/citations/38225265" target="\_blank">38225265</a>). This activity is regulated by DUSP22, which induces 'Lys-48'-linked ubiquitination of UBR2, leading to its proteasomal degradation by SCF E3 ubiquitin-protein ligase complex (PubMed:<a href="http://www.uniprot.org/citations/38225265" target="\_blank">38225265</a>).

#### Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q6WKZ8}. Chromosome {ECO:0000250|UniProtKB:Q6WKZ8}. Note=Associated with chromatin during meiosis. {ECO:0000250|UniProtKB:Q6WKZ8}

#### Tissue Location

Broadly expressed, with highest levels in skeletal muscle, kidney and pancreas. Present in acinar cells of the pancreas (at protein level).

### UBR2 Polyclonal Antibody - 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](#)

### UBR2 Polyclonal Antibody - Images