

**UBE3C Polyclonal Antibody**  
Catalog # AP72985**Specification**

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**UBE3C Polyclonal Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">Q15386</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>

**UBE3C Polyclonal Antibody - Additional Information****Gene ID** 9690**Other Names**

UBE3C; KIAA0010; KIAA10; Ubiquitin-protein ligase E3C; HectH2

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**UBE3C Polyclonal Antibody - Protein Information****Name** UBE3C {ECO:0000303|PubMed:17323924, ECO:0000312|HGNC:HGNC:16803}**Function**

E3 ubiquitin-protein ligase that specifically catalyzes 'Lys- 29'- and 'Lys-48'-linked polyubiquitin chains (PubMed:<a href="http://www.uniprot.org/citations/11278995" target="\_blank">11278995</a>, PubMed:<a href="http://www.uniprot.org/citations/12692129" target="\_blank">12692129</a>, PubMed:<a href="http://www.uniprot.org/citations/16341092" target="\_blank">16341092</a>, PubMed:<a href="http://www.uniprot.org/citations/16601690" target="\_blank">16601690</a>, PubMed:<a href="http://www.uniprot.org/citations/24158444" target="\_blank">24158444</a>, PubMed:<a href="http://www.uniprot.org/citations/24811749" target="\_blank">24811749</a>, PubMed:<a href="http://www.uniprot.org/citations/25752573" target="\_blank">25752573</a>, PubMed:<a href="http://www.uniprot.org/citations/25752577" target="\_blank">25752577</a>, PubMed:<a href="http://www.uniprot.org/citations/32039437" target="\_blank">32039437</a>, PubMed:<a href="http://www.uniprot.org/citations/33637724" target="\_blank">33637724</a>, PubMed:<a href="http://www.uniprot.org/citations/34239127" target="\_blank">34239127</a>). Accepts ubiquitin from the E2 ubiquitin-conjugating enzyme UBE2D1 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates (PubMed:<a href="http://www.uniprot.org/citations/32039437" target="\_blank">32039437</a>, PubMed:<a href="http://www.uniprot.org/citations/9575161" target="\_blank">9575161</a>).

Associates with the proteasome and promotes elongation of ubiquitin chains on substrates bound to the 26S proteasome (PubMed:<a href="http://www.uniprot.org/citations/24158444" target="\_blank">24158444</a>, PubMed:<a href="http://www.uniprot.org/citations/28396413" target="\_blank">28396413</a>, PubMed:<a href="http://www.uniprot.org/citations/31375563" target="\_blank">31375563</a>). Also catalyzes 'Lys-29'- and 'Lys-48'-linked ubiquitination of 26S proteasome subunit ADRM1/RPN13 in response to proteotoxic stress, impairing the ability of the proteasome to bind and degrade ubiquitin- conjugated proteins (PubMed:<a href="http://www.uniprot.org/citations/24811749" target="\_blank">24811749</a>, PubMed:<a href="http://www.uniprot.org/citations/31375563" target="\_blank">31375563</a>). Acts as a negative regulator of autophagy by mediating 'Lys-29'- and 'Lys-48'- linked ubiquitination of PIK3C3/VPS34, promoting its degradation (PubMed:<a href="http://www.uniprot.org/citations/33637724" target="\_blank">33637724</a>). Can assemble unanchored poly-ubiquitin chains in either 'Lys-29'- or 'Lys-48'-linked polyubiquitin chains; with some preference for 'Lys-48' linkages (PubMed:<a href="http://www.uniprot.org/citations/11278995" target="\_blank">11278995</a>, PubMed:<a href="http://www.uniprot.org/citations/16601690" target="\_blank">16601690</a>, PubMed:<a href="http://www.uniprot.org/citations/25752577" target="\_blank">25752577</a>). Acts as a negative regulator of type I interferon by mediating 'Lys-48'-linked ubiquitination of IRF3 and IRF7, leading to their degradation by the proteasome (PubMed:<a href="http://www.uniprot.org/citations/21167755" target="\_blank">21167755</a>). Catalyzes ubiquitination and degradation of CAND2 (PubMed:<a href="http://www.uniprot.org/citations/12692129" target="\_blank">12692129</a>).

#### **Tissue Location**

Highly expressed in skeletal muscle. Detected at much lower levels in kidney and pancreas.

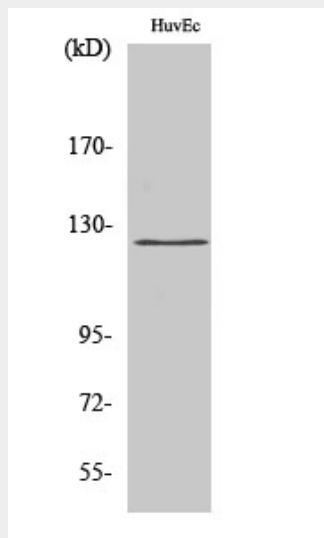
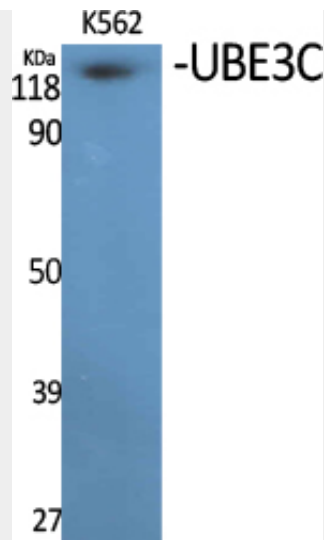
#### **UBE3C Polyclonal Antibody - Protocols**

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](#)

#### **UBE3C Polyclonal Antibody - Images**





### UBE3C Polyclonal Antibody - Background

E3 ubiquitin-protein ligase that accepts ubiquitin from the E2 ubiquitin-conjugating enzyme UBE2D1 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Can assemble unanchored poly-ubiquitin chains in either 'Lys-29'- or 'Lys-48'-linked polyubiquitin chains. Has preference for 'Lys-48' linkages. It can target itself for ubiquitination in vitro and may promote its own degradation in vivo.