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# HECTD2 Rabbit pAb

Catalog # AP97579

## Product Information

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| **Application** | IHC-P, IHC-F, IF, E |
| **Primary Accession** | Q5U5R9 |
| **Other Accession** | Q5U5R9 |
| **Predicted** | Rat, Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 88122 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human HECTD2 |
| **Epitope Specificity** | 701-776/776 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4. |
| **SIMILARITY** | Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | HECT (Homologous to the E6-AP Carboxyl Terminus) proteins are a large group of E3 ubiquitin-ligases that play a role in the specificity and selectivity of ubiquitylation. The human genome encodes at least 20 different HECT domain proteins, which are grouped into two classes based on their E2 specificity. HECT enzymes also regulate the trafficking of many receptors, transporters, viral proteins and channels. Since HECT proteins are involved in the degradation of vital tumor suppressor molecules, it is theorized that some may contribute to tumorigenesis. HECTD2 (HECT domain-containing protein 2) is a 776 amino acid E3 ubiquitin-ligase that characteristically accepts ubiquitin from an E2 ubquitin-conjugating enzyme and directly transfers the ubiquitin to targeted substrates. Recently, HECTD2 haplotypes have been linked to the susceptibility of acquiring human prion diseases such as Creutzfeldt-Jakob Disease and kuru, which present after a long, clinically silent incubation period that seems to be determined by factors such as genetic background. |

## Additional Information

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| **Gene ID** | 143279 |
| **Other Names** | 4921524L07; A630025O09Rik; CR201_G0037942; HECD2_HUMAN; HECTD2; HECT domain-containing protein 2; HECT-type E3 ubiquitin transferase HECTD2; 2.3.2.26; HECD2_MOUSE; HECD2_PONAB; HECT domain E3 ubiquitin protein ligase 2; HECT domain containing E3 ubiquitin protein ligase 2 |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |

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| **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. |

## Protein Information

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| **Name** | HECTD2 {ECO:0000303\|PubMed:28584101, ECO:0000312\|HGNC:HGNC:26736} |
| **Function** | E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.