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# Anti-UBR1 Antibody

Catalog # AP60521

## Product Information

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| **Application** | WB, IHC |
| **Primary Accession** | Q8IWV7 |
| **Reactivity** | Human, Mouse, Rat, Mk |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 200211 |

## Additional Information

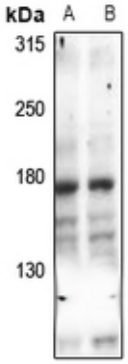
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| **Gene ID** | 197131 |
| **Other Names** | E3 ubiquitin-protein ligase UBR1; N-recognin-1; Ubiquitin-protein ligase E3-alpha-1; Ubiquitin-protein ligase E3-alpha-I |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human UBR1. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

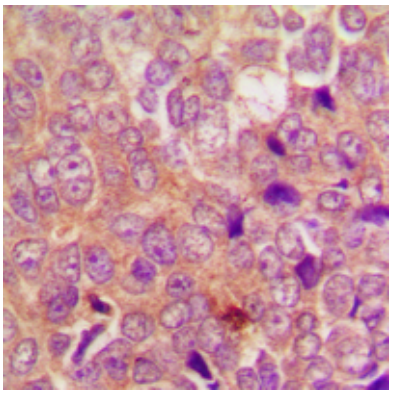
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|---|---|
| **Name** | UBR1 {ECO:0000303\|PubMed:15317757, ECO:0000312\|HGNC:HGNC:16808} |
| **Function** | E3 ubiquitin-protein ligase which is a component of the N-end rule pathway (PubMed:15548684, PubMed:16311597, PubMed:18162545, PubMed:20835242, PubMed:28392261). Recognizes and binds proteins bearing specific N-terminal residues that are destabilizing according to the N-end rule, leading to their ubiquitination and subsequent degradation (PubMed:18162545, PubMed:20835242, PubMed:28392261). 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:18162545). Does not ubiquitinate proteins that are acetylated at the N-terminus (PubMed:20835242). In contrast, it strongly binds methylated N-degrons (PubMed:28392261). Binds leucine and is a negative regulator of the leucine-mTOR signaling pathway, thereby controlling cell growth (PubMed:20298436). |

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| **Cellular Location** | Cytoplasm, cytosol. |
| **Tissue Location** | Broadly expressed, with highest levels in skeletal muscle, kidney and pancreas. Present in acinar cells of the pancreas (at protein level). |

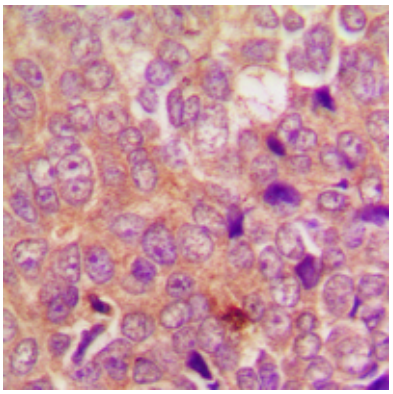
## Images




Western blot analysis of UBR1 expression in COS7 (A), HEK293T (B) whole cell lysates. (Predicted band size: 200 kD; Observed band size: 180 kD)



Immunohistochemical analysis of UBR1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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