

## anti-Human UBE2Q2 Polyclonal Antibody | anti-UBE2Q2 antibody

Anti-UBE2Q2 Antibody

|                              |                            |                                                           |
|------------------------------|----------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA46350</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|------------------------------|----------------------------|-----------------------------------------------------------|

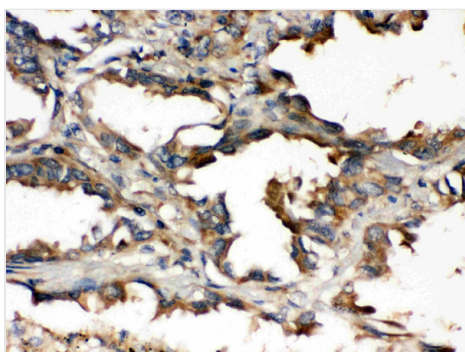
### PRODUCT SYNONYMS

UBE2Q2; Polyclonal Antibody; Anti-UBE2Q2 Antibody; Ubiquitin-conjugating enzyme E2 Q2; LOC92912; UB2Q2\_HUMAN; Ubiquitin carrier protein Q2; Ubiquitin conjugating enzyme E2Q 2; Ubiquitin conjugating enzyme E2Q family member 2; ubiquitin-conjugating enzyme E2Q (putative) 2; Ubiquitin-protein ligase Q2; ubiquitin conjugating enzyme E2Q family member 2; anti-UBE2Q2 antibody

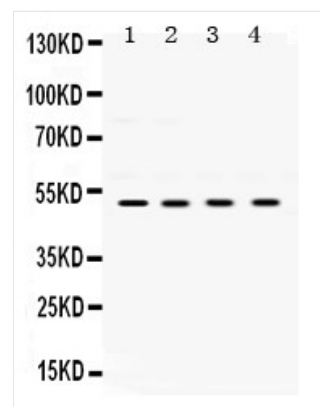
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                       |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                       | Human                                                                                                                                                                                                 |
| Clonality                                        | Polyclonal                                                                                                                                                                                            |
| Purity/Purification                              | Immunogen Affinity Purified                                                                                                                                                                           |
| Form/Format                                      | Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                      |
| Sequence Length                                  | 359                                                                                                                                                                                                   |
| Applicable Applications for anti-UBE2Q2 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                         |
| Immunogen                                        | A synthetic peptide corresponding to a sequence at the N-terminus of human UBE2Q2 (83-123aa LERLEDTKNNLLRQQLKWLICELCSLYNLPKHLDVEMLDQ), different from the related mouse sequence by four amino acids. |
| Ig Type                                          | Rabbit IgG                                                                                                                                                                                            |
| Reconstitution                                   | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                  |
| Preparation and Storage                          | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.   |

### IMAGES



IHC (Immunohistochemistry)  
Anti- UBE2Q2 Picoband antibody, AAA46350, IHC(P) IHC(P): Human Lung Cancer Tissue



**WB (Western Blot)**  
Anti- UBE2Q2 Picoband antibody, AAA46350, Western blotting  
All lanes: Anti UBE2Q2 (AAA46350) at 0.5ug/ml  
Lane 1: HELA Whole Cell Lysate at 40ug  
Lane 2: A431 Whole Cell Lysate at 40ug  
Lane 3: MCF-7 Whole Cell Lysate at 40ug  
Lane 4: SW620 Whole Cell Lysate at 40ug  
Predicted bind size: 50KD  
Observed bind size: 50KD

## ADDITIONAL INFORMATION

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|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-UBE2Q2 antibody</b> | <p>Description: Rabbit IgG polyclonal antibody for Ubiquitin-conjugating enzyme E2 Q2(UBE2Q2) detection. Tested with WB, IHC-P in Human.</p> <p>Background: UBE2Q2 is identified as a putative ubiquitin-conjugating enzyme (E2) in a microarray screen for mitotic regulatory proteins. Its gene is mapped to 15q24.2. UBE2Q2 can covalently bind ubiquitin on the active site cysteine within the UBC domain. Inhibition of UBE2Q2 in HeLa cells causes an early mitotic arrest and increases cytotoxicity when the cells are treated with microtubule-inhibiting agents (MIAs). Changes in cell cycle progression and viability are not observed in the absence of MIA treatment, indicating that UBE2Q2 is involved in the response to MIAs rather than performing a more general function in mitosis. Moreover, inhibition of the UBE2Q2 protein causes cells to undergo a prolonged prophase arrest, suggesting that UBE2Q2 normally functions to antagonize an early mitotic checkpoint. Finally, inhibition of UBE2Q2 also sensitizes cells to the cytotoxic effects of MIAs through caspase-mediated apoptosis that is correlated with PARP1 cleavage.</p> |
| <b>References</b>                                           | <p>1. Banerjee, S., Brooks, W. S., Crawford, D. F. Inactivation of the ubiquitin conjugating enzyme UBE2Q2 causes a prophase arrest and enhanced apoptosis in response to microtubule inhibiting agents. <i>Oncogene</i> 26: 6509-6517, 2007. 2. Crawford, D. F., Piwnica-Worms, H. The G2 DNA damage checkpoint delays expression of genes encoding mitotic regulators. <i>J. Biol. Chem.</i> 276: 37166-37177, 2001. 3. Seghatoleslam, A., Zambrano, A., Millon, R., Ganguli, G., Argentini, M., Cromer, A., Abecassis, J., Wasylyk, B. Analysis of a novel human gene, LOC92912, over-expressed in hypopharyngeal tumours. <i>Biochem. Biophys. Res. Commun.</i> 339: 422-429, 2006.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                            |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">223890185</a>                                                                                                  |
| <b>NCBI GeneID</b>                      | <a href="#">92912</a>                                                                                                      |
| <b>NCBI Accession #</b>                 | <a href="#">NP_001138807.1</a>                                                                                             |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_001145335.1</a>                                                                                             |
| <b>UniProt Accession #</b>              | <a href="#">Q8WVN8</a> ; <a href="#">Q8N4G6</a> ; <a href="#">Q96J08</a> ; <a href="#">B7Z3Q2</a> ; <a href="#">H3BRG2</a> |
| <b>Molecular Weight</b>                 | 38,699 Da                                                                                                                  |
| <b>NCBI Official Full Name</b>          | ubiquitin-conjugating enzyme E2 Q2 isoform 2                                                                               |
| <b>NCBI Official Synonym Full Names</b> | ubiquitin conjugating enzyme E2 Q2                                                                                         |
| <b>NCBI Official Symbol</b>             | UBE2Q2                                                                                                                     |
| <b>NCBI Protein Information</b>         | ubiquitin-conjugating enzyme E2 Q2                                                                                         |
| <b>UniProt Protein Name</b>             | Ubiquitin-conjugating enzyme E2 Q2                                                                                         |
| <b>UniProt Gene Name</b>                | <b>UBE2Q2</b>                                                                                                              |
| <b>UniProt Entry Name</b>               | UB2Q2_HUMAN                                                                                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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