

Anti-CUEDC2 Antibody

Catalog # ABO11269

Product Information

Application	WB, IHC-P
Primary Accession	Q9H467
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for CUE domain-containing protein 2(CUEDC2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	79004
Other Names	CUE domain-containing protein 2, CUEDC2, C10orf66
Calculated MW	32009
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm . Nucleus .
Tissue Specificity	Significantly up-regulated in breast tumor tissues compared with matched adjacent normal tissues (at protein level). Levels inversely correlate with ESR1 in breast cancers and are lower in low-grade tumors compared to high-grade tumors.
Source	Eukaryota
Protein Name	CUE domain-containing protein 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CUEDC2(267-287aa EAEEMKATYINLKPARKYRFH), identical to the related mouse sequence, and different from the related rat sequence by one amino acid.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the CUEDC2 family.

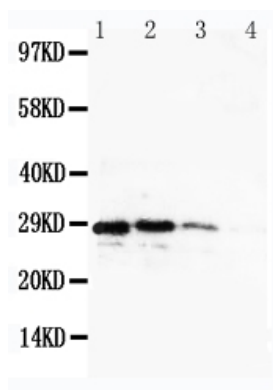
Protein Information

Name	CUEDC2
Synonyms	C10orf66
Function	Down-regulates ESR1 protein levels through the ubiquitination-proteasome pathway, regardless of the presence of 17 beta-estradiol. Also involved in 17 beta-estradiol-induced ESR1 degradation. Controls PGR protein levels through a similar mechanism.
Cellular Location	Cytoplasm. Nucleus
Tissue Location	Significantly up-regulated in breast tumor tissues compared with matched adjacent normal tissues (at protein level) Levels inversely correlate with ESR1 in breast cancers and are lower in low-grade tumors compared to high-grade tumors

Background

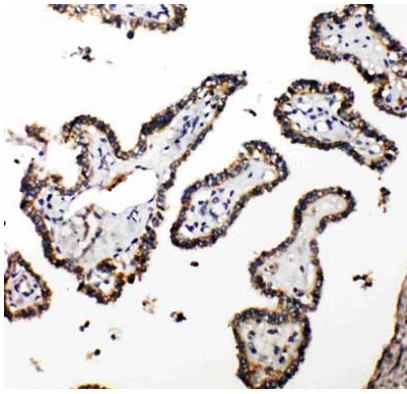
CUEDC2(Cue Domain-Containing Protein 2) is involved in ubiquitin-and proteasome-mediated degradation of progesterone receptor(PR, or PGR) and estrogen receptor(ER)-alpha. Hartz(2011) mapped the CUEDC2 gene to chromosome 10q24.32 based on an alignment of the CUEDC2 sequence with the genomic sequence(GRCh37). Using coimmunoprecipitation analysis and protein pull-down assays, Zhang et al.(2007) confirmed that CUEDC2 interacted with the PRB isoform of PR. Mutation analysis revealed that the IF domain of PRB and the CUE domain of CUEDC2 were required for the interaction. CUEDC2 reduced PRB protein content and promoted progesterone-induced PRB degradation via the ubiquitin-proteasome pathway.

Images



Anti-CUEDC2 antibody, ABO11269, Western blotting
 Recombinant Protein Detection Source: E.coli derived -recombinant human CuEDC2, 28.9KD(162aa tag+ N197-H287)
 Lane 1: Recombinant Human CuEDC2 Protein 10ng
 Lane 2: Recombinant Human CuEDC2 Protein 5ng
 Lane 3: Recombinant Human CuEDC2 Protein 2.5ng
 Lane 4: Recombinant Human CuEDC2 Protein 1.25ng

Anti-CUEDC2 antibody, ABO11269, IHC(P)
 IHC(P): Human Thyroid Cancer Tissue



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