

Anti-CUEDC2 Antibody
Catalog # ABO11269**Specification**

Anti-CUEDC2 Antibody - Product Information

Application	WB, IHC
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.

Anti-CUEDC2 Antibody - Additional Information

Gene ID 79004

Other Names

CUE domain-containing protein 2, CUEDC2, C10orf66

Calculated MW

32009 MW KDa

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.

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.

Anti-CUEDC2 Antibody - 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

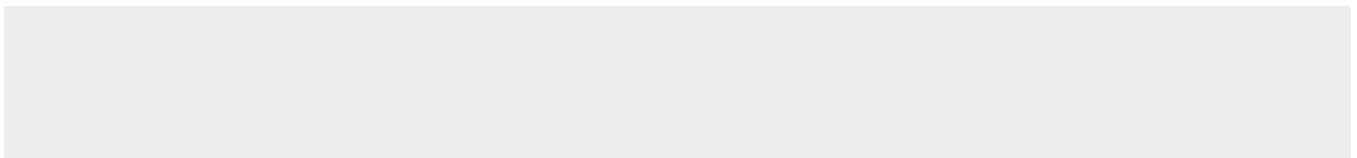
Tissue Location

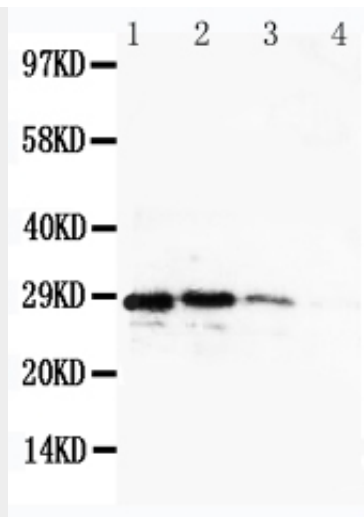
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Anti-CUEDC2 Antibody - Protocols

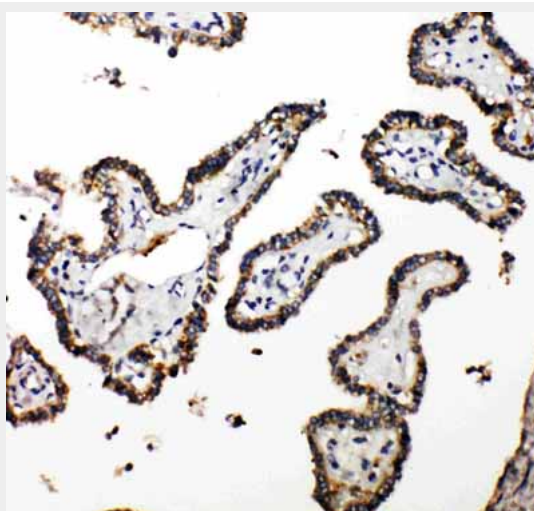
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CUEDC2 Antibody - 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

Anti-CUEDC2 Antibody - 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.