

Anti-Cul7/Cullin 7 Antibody

Catalog Number: A03179

About CUL7

Cullins assemble a potentially large number of ubiquitin ligases by binding to the RING protein ROC1 to catalyse polyubiquitination, as well as binding to various specificity factors to recruit substrates. Cullin 7 is a component of E3 ubiquitin ligase complexes, which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. Cullin 7 seems to be involved proteasomal degradation of proteins involved in endothelial proliferation and/or differentiation. Cullin 7 is part of a SCF-like complex consisting of CUL7, RBX1, SKP1, FBXW8 and GLMN isoform 1. Cullin 7 interacts with a complex of SKP1 and FBXW8, but not with SKP1 alone.

Overview

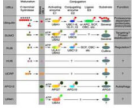
Product Name	Anti-Cul7/Cullin 7 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Cul7/Cullin 7 Antibody (Catalog # A03179). Tested in IHC, IP, WB applications. This antibody reacts with Human.
Application	ELISA, IP, IHC, WB
Clonality	Polyclonal
Formulation	0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q14999

Technical Details

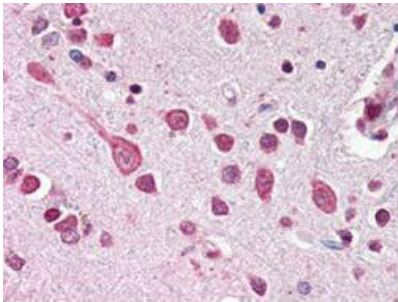
Immunogen	This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-Terminus region near amino acids 1675-1698 of Human Cul7 coupled to KLH.
Predicted Reactive Species	Canine, Guinea Pig, Rabbit
Isotype	Antiserum
Form	Liquid (sterile filtered)
Concentration	85 mg/mL by Refractometry

Purification	This product is monospecific antiserum processed by delipidation and defibrination followed by sterile filtration. This product reacts with human and mouse Cullin 7. Cross-reactivity with other human cullins may occur.
Suggested Dilutions	ELISA: 1:2,000 - 1:10,000 IHC: User optimized IP: User optimized WB: 1:500 - 1:1,000 Anti-Cul7 has been tested by immunohistochemistry. This antibody reacts with human and mouse Cul7 by western blot and immunoprecipitation. The antibody immunoprecipitates in vitro translated protein and also immunoprecipitates protein from cell lysates (using HeLa, NIH-3T3, and others). This antibody also co-immunoprecipitates associated proteins in overexpressed CUL7 systems. A 191.2 kDa band corresponding to human Cul7 is detected. Most cell lines expressing Cul7 can be used as a positive control. Researchers should determine optimal titers for other applications.

Anti-Cul7/Cullin 7 Antibody (A03179) Images



Most modifiers mature by proteolytic processing from inactive precursors (a; amino acid). Arrowheads point to the cleavage sites. Ubiquitin is expressed either as polyubiquitin or as a fusion with ribosomal proteins. Conjugation requires activating (E1) and conjugating (E2) enzymes that form thioesters (S) with the modifiers. Modification of cullins by RUB involves SCF(SKP1/cullin-1/F-box protein) /CBC(cullin-2/elongin B/elonginC) -like E3 enzymes that are also involved in ubiquitination. In contrast to ubiquitin, the UBLs do not seem to form multi-UBL chains. UCRP(ISG15) resembles two ubiquitin moieties linked head-to-tail. Whether HUB1 functions as a modifier is currently unclear. APG12 and URM1 are distinct from the other modifiers because they are unrelated in sequence to ubiquitin. Data contributed by S.Jentsch, see references below.



Boster's Anti-CUL7 antibody was diluted 1:500 to detect CUL7 in human brain cortex tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.

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