CUL5 Polyclonal Antibody

Cat No: HR1AP11644

For research use only

Overview

Product Name	CUL5 Polyclonal Antibody
Source	Rabbit
Applications	WB,ELISA
Species Reactivity	Human,Mouse,Rat
Recommended Dilutions	
Immunogen	
Species	Rabbit
Storage	-20°C/1 year
Isotype	
Clonality	
Concentration	1 mg/ml
Observed band	85kDa
GeneID?Human?	CUL5 VACM1
Human Swiss-Prot No.	
Cellular localization	
Alternative Names	

Background	function:Core component of multiple SCF-like ECS (Elongin-Cullin 2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. As a scaffold protein may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The functional specificity of the E3 ubiquitin-protein ligase complex depends on the variable substrate recognition component. ECS(SOCS1) seems to direct ubiquitination of JAk2. Seems to be involved poteosomal degradation of p53/TP53 stimulated by adenovirus E1B-55 kDa protein. May form a cell surface vasopressin receptor.,pathway:Protein modification; protein ubiquitination.,PTM:Neddylated. Deneddylated via its interaction with the COP9 signalosome (CSN) complex.,similarity:Belongs to the cullin family.,subunit:Component of multiple ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes formed of CUL5, Elongin BC (TCEB1 and TCEB2), RBX2 and a variable SOCS box domain-containing protein as substrate-specific recognition component. Component of the probable ECS(LRRC41) complex with the substrate recognition component LRRC41. Component of the probable ECS(SOCS1) complex with the substrate recognition component SOCS1. Component of the probable ECS(WSB1) complex with the substrate recognition subunit WSB1. Component of the probable ECS(SOCS3) complex with the substrate recognition component SOCS3. Component of the probable ECS(SPSB1) complex with the substrate recognition component SPSB1. Component of the probable ECS(SPSB2) complex with the substrate recognition component SPSB2. Component of the probable ECS(SPSB4) complex with the substrate recognition component SPSB4. Component of the probable ECS(RAB40C) complex with the substrate recognition subunit RAB40C. May also form complexes containing CUL5, elongin BC complex (TCEB1 and TCEB2), RBX1 and TCEB3. May also form complexes containing CUL5, Elongin BC (TCEB1 and TCEB2), RBX1 and VHL. The substrate recognition component can also be a viral protein such as HIV Vif, or human adenovirus 5 E1B large T-antigen and E4-orf6. Interacts with RNF7/RBX2, LRRC41, SOCS3, SPSB1, SPSB2, SPSB4 and RAB40C. Interacts with ASB1, ASB2, ASB6, ASB7 and ASB12.,