

Rabbit Anti-KLHL13/APC Conjugated antibody

SL7752R-APC

Product Name Anti-KLHL13/APC

Chinese Name APC 标记的 kelch 样蛋白 13 抗体

Alias Kelch-like protein 13; BTB and kelch domain-containing protein 2; KLH13_HUMAN.

Research Area Cell biology Cyclin Cell differentiation Epigenetics

Immunogen Species Rabbit

Clonality Polyclonal

React Species (predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,Zebrafish)
IF=1:100-500

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Molecular weight 74kDa

Form Lyophilized or Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human KLHL13

Lsotype IgG

Purification affinity purified by Protein A

Storage Buffer 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Product Detail **background:** KLHL13 (kelch like 13), also known as BKLHD2 (BTB and kelch domain containing protein 2), is a 604 amino acid protein that contains six Kelch repeats and one BTB/POZ domain. Expressed predominantly in brain, KLHL13 is believed to

play a role in protein ubiquitination and may function as a substrate specific adapter of an E3 ubiquitin protein ligase complex. E3 ligases accept a ubiquitin residue from an E2 ubiquitin conjugating enzyme and immediately transfer that residue to a protein that is targeted for degradation. Specifically, KLHL13 interacts with KLHL9 and CUL3, a member of the cullin family of mediators that participate in the selective targeting of proteins for ubiquitin mediated proteolysis. Via its BTB and C terminal Kelch (BACK) motif, KLHL13 is thought to play a role in spatially orientating substrates in the CUL3 ligase.

Function:

Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for mitotic progression and cytokinesis. The BCR(KLHL9-KLHL13) E3 ubiquitin ligase complex mediates the ubiquitination of AURKB and controls the dynamic behavior of AURKB on mitotic chromosomes and thereby coordinates faithful mitotic progression and completion of cytokinesis.

Subunit:

Component of the BCR(KLHL9-KLHL13) E3 ubiquitin ligase complex, at least composed of CUL3, KLHL9, KLHL13 and RBX1. Interacts with AURKB.

Similarity:

Contains 1 BACK (BTB/Kelch associated) domain.
Contains 1 BTB (POZ) domain.
Contains 6 Kelch repeats.

Database links:

UniProtKB/Swiss-Prot: Q9P2N7.3

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.