

Klhl12 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11564**Specification**

Klhl12 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	Q8R2H4
Other Accession	NM_153730 , NP_714952
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Dog
Predicted	Human, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62kDa KDa

Klhl12 antibody - N-terminal region - Additional Information**Gene ID** 266772**Alias Symbol** C3ip1, MGC93127**Other Names**

Kelch-like protein 12, CUL3-interacting protein 1, Klhl12, C3ip1

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Klhl12 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Klhl12 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Klhl12 antibody - N-terminal region - Protein Information**Name** Klhl12**Synonyms** C3ip1**Function**

Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that acts as a negative regulator of Wnt signaling pathway and ER-Golgi transport. The BCR(KLHL12) complex is involved in ER-Golgi transport by regulating the size of COPII coats, thereby playing a key role in collagen export, which is required for embryonic stem (ES) cells division: BCR(KLHL12) acts by mediating monoubiquitination of SEC31 (SEC31A or SEC31B). The BCR(KLHL12) complex is also

involved in neural crest specification: in response to cytosolic calcium increase, interacts with the heterodimer formed with PEF1 and PDCD6/ALG-2, leading to bridge together the BCR(KLHL12) complex and SEC31 (SEC31A or SEC31B), promoting monoubiquitination of SEC31 and subsequent collagen export. As part of the BCR(KLHL12) complex, also acts as a negative regulator of the Wnt signaling pathway by mediating ubiquitination and subsequent proteolysis of DVL3. The BCR(KLHL12) complex also mediates polyubiquitination of DRD4 and PEF1, without leading to degradation of these proteins.

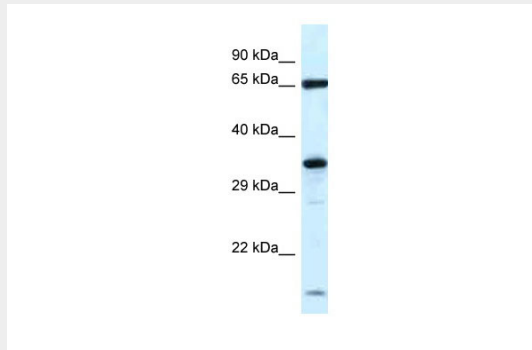
Cellular Location

Cytoplasmic vesicle, COPII-coated vesicle {ECO:0000250|UniProtKB:Q53G59}

Klhl12 antibody - N-terminal region - 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](#)

Klhl12 antibody - N-terminal region - Images

WB Suggested Anti-Klhl12 Antibody Titration: 1.0 µg/ml

Positive Control: Rat Brain