SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-C3IP1 antibody

Catalog Number: SL15164R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	C3IP1
Immunogen:	KLH conjugated synthetic peptide derived from human C3IP1 : 1-100/568
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Pig,Horse,Sheep)
Predicted MW.:	63kDa
Subcellular Location:	cytoplasmic
Background:	KLHL12 is a 568 amino acid protein that is a component of an ubiquitin-protein E3 ligase complex, which includes at least CUL-3. KLHL12 is a substrate-specific adapter for the complex, which negatively regulates the Wnt signaling pathway via the targeted ubiquitination and subsequent proteolysis of Dvl-3. KLHL12 contains six Kelch repeats and one BTB (POZ) domain, which is required for interaction with CUL-3. KLHL12 has highest expression in testis, with lower levels found in the submandibular salivary gland. The gene that encodes KLHL12 maps to human chromosome 1q32.1 **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). As part of the BCR(KLHL12) complex, also acts as a

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	negative regulator of the Wnt signaling pathway by mediating ubiquitination and subsequent proteolysis of DVL3. The BCR(KLHL12) complex also mediates polyubiquitination of DRD4, without leading to degradation of DRD4. **Subunit:** Component of the BCR(KLHL12) E3 ubiquitin ligase complex, at least composed of CUL3 and KLHL12 and RBX1. This complex interacts with DVL3 upon activation of the Wnt signaling pathway by WNT3A. Interacts with DRD4, KLHL12 and SEC31A. **Subcellular Location:** Cytoplasmic vesicle, COPII-coated vesicle. **Tissue Specificity:** Ubiquitously expressed. Highly expressed in testis and at lower levels in the submandibular salivary gland. **Similarity:** Contains 1 BACK (BTB/Kelch associated) domain. Contains 1 BTB (POZ) domain. Contains 6 Kelch repeats. **Database links:** **Entrez Gene:** 768068 Cow **Entrez Gene:** 59349 Human **Entrez Gene:** 240756 Mouse **Entrez Gene:** 266772 Rat **Entrez Gene:** 431860 Xenopus laevis **Entrez Gene:** 492362 Zebrafish Omim: 614522 Human **SwissProt:** E1B932 Cow **SwissProt:** Q53G59 Human **SwissProt:** Q8BZM0 Mouse **SwissProt:** Q8R2H4 Rat **SwissProt:** Q6NRH0 Xenopus laevis **SwissProt:** Q5U374 Zebrafish **Unigene:** 706793 Human **Unigene:** 478061 Mouse **Unigene:** 87398 Mouse **Unigene:** 15513 Rat **Unigene:** 32296 Xenopus laevis **Unigene:** 81655 Zebrafish

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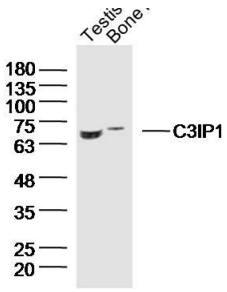
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[VALIDATION IMAGES]



Sample:
Testis (Mouse) Lysate at 40 ug
Bone marrow (Mouse) Lysate at 40 ug
Primary: Anti-C3IP1 (SL15164R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 63 kD
Observed band size: 65 kD

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