

KD-Validated Anti-COPS3 Rabbit Polyclonal Antibody

Rabbit polyclonal antibody

Catalog # AGI2134

Product Information

Application	WB
Primary Accession	Q9UNS2
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	47873
Gene Name	COPS3
Aliases	COPS3; COP9 Signalosome Subunit 3; SGN3; CSN3; JAB1-Containing Signalosome Subunit 3; COP9 Signalosome Complex Subunit 3; Signalosome Subunit 3; COP9 (Constitutive Photomorphogenic, Arabidopsis, Homolog) Subunit 3; COP9 Constitutive Photomorphogenic Homolog Subunit 3 (Arabidopsis); COP9 Constitutive Photomorphogenic Homolog Subunit 3; COP9 Complex Subunit 3
Immunogen	A synthesized peptide derived from human COPS3

Additional Information

Gene ID	8533
Other Names	COP9 signalosome complex subunit 3, SGN3, Signalosome subunit 3, JAB1-containing signalosome subunit 3, COPS3, CSN3

Protein Information

Name	COPS3
Synonyms	CSN3
Function	Component of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of SCF-type E3 ligase complexes, leading to decrease the Ubl ligase activity of SCF-type complexes such as SCF, CSA or DDB2. The complex is also involved in phosphorylation of p53/TP53, c-jun/JUN, IκappaBα/NFKBIA, ITPK1 and IRF8/ICSBP, possibly via its association with CK2 and PKD kinases. CSN-dependent phosphorylation of TP53 and JUN promotes and protects degradation by the Ubl system, respectively. Mediates the interaction between the desmosome and COP9 signalosome complex (CSN) protein complex (PubMed: 28891468). As a result of this interaction, promotes keratinocyte differentiation via deneddylation of EGFR resulting in a reduction in EGFR protein stabilization and translocation away from the cell membrane (PubMed: 28891468).

Cellular Location	Cytoplasm. Nucleus. Cell junction
Tissue Location	Widely expressed. Expressed at high level in heart and skeletal muscle.

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